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CENSUS OF MANUFACTURES

VOLUME I

SUMMARY STATISTICS

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Sinclair Weeks, Secretary

BUREAU OF THE CENSUS
Robert W. Burgess, Director

UNITED STATES Census of Manufactures 1954

Volume I

SUMMARY STATISTICS

Subject Matter Summaries of Statistics
for Industries and Geographic Areas

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Prepared under the supervision of
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Chief, Industry Division

UNITED STATES GOVERNMENT PRINTING OFFICE
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PREFACE

This is one of a series of three volumes presenting final results of the 1954 Census of Manufactures. The 1954 Census was a large-scale undertaking which depended upon significant contributions from a great number of private and public organizations and individuals. Essential to the success of the Census, of course, was the excellent cooperation of some 280,000 manufacturing establishments in completing the appropriate report forms.

Hundreds of trade associations and thousands of individual manufacturers--large, medium, and small--as well as Government agencies and other data users provided valuable counsel in determining the types of information which would be of maximum usefulness. Among the Government agencies, the Bureau of the Budget, Business and Defense Services Administration, Bureau of Labor Statistics, Bureau of Mines, Department of Agriculture, the Office of Business Economics, the Board of Governors of the Federal Reserve System, and the Tariff Commission made especially important contributions to the 1954 Census. Also noteworthy was the assistance of the Advisory Council on Federal Reports in advising upon the feasibility of collecting various types of data and in participating in efforts aimed at minimizing the reporting burden. Support by the United States Chamber of Commerce, the National Association of Manufacturers, and other business groups, and timely publicity given to the Manufactures Census by the press, television, and radio aided materially in the collection of the reports.

The primary responsibility for the 1954 Census of Manufactures was centered in the Industry Division of the Census Bureau. Other divisions of the Bureau, particularly the Economic Operations Division, Machine Tabulation Division, Field Division, Administrative Service Division, and the Electronic Systems Branch, also had important functions in the Census.

The Manufactures Census was taken under the supervision of Maxwell R. Conklin, Chief of the Industry Division. The individuals listed in the organization structure of the Division shown on the opposite page carried the principal responsibility for the Census within the Division. Other Industry Division staff personnel also had important responsibilities in various phases of the Census. Their individual and collective contributions were essential to the completion of the census and of greater significance than would ordinarily be inferred from the mere alphabetic listing of their names which follows: Daniel Arrill, John J. Bartosiewicz, Paul F. Berard, Martin Bloom, Evelyn W. Colburn, Alice K. Cullen, Angela R. Daly, Jerome Deitch, M. Audrey Dickerson, Robert J. Dressel, David M. Fishbein, Edward D. Gruen, Arthur W. Horowitz, Shirley Kallek, Alvin S. Lubeck, Martin L. Marimont, Reese R. Morgan, Richard J. Rice, Albert A. Schulman, Charles H. Wittman, and John J. Zirkle, Jr. These individuals merited recognition for their participation in the development of the Census inquiries, the preparation of the report forms and instructions, the design of specifications for editing and coding the returns and the preparation and review of final text and tables. In a broader sense, special mention is due the entire staff of the Industry Division and a large number of people in other divisions of the Bureau during the collection, processing, tabulation, and publication of data from the 1954 Census of Manufactures.

Processing of the 1954 Census of Manufactures reports was performed by the Economic Operations Division under the supervision of Marion D. Bingham, Chief, Irving Weiss, Assistant Chief for Processing, and Sol Dolleck, Assistant Chief for Systems Development. Milton D. Lieberman, Chief of the Manufactures Census Branch and Sol Dolleck who succeeded him in that position on October 24, 1955 were assisted by Herman Hess, Walter A. Hines, Mary H. Johnson, Joseph M. Schubert, and Donald E. Young. Samuel Schweid contributed to certain procedural aspects of the Census and Robert Hansen to the Univac programming of the editing and tabulation phases.

Donald K. Heiser, Chief of the Electronic Systems Branch, and Rudolph M. Micol, Chief of Operations for the Branch, were responsible for the utilization of electronic computer and accompanying high-speed printer equipment in the Census.

C. F. Van Aken was Chief of the Machine Tabulation Division and, in that division, Catherine M. Neafsey, Chief, Economic Section, and Emil Gorgovits were responsible for the machine tabulation procedures used in the Manufactures Census.

In the Field Division, Jack B. Robertson, then Chief of the Division, and Ivan G. Munro, Assistant Chief, were responsible for directing the field work for the Census of Manufactures. George Klink, Branch Chief, supervised the collection of reports from Eastern sawmills that were not included in the Census mail canvass.

Julius Shiskin, Chief Economic Statistician in the Office of the Assistant Director for Statistical Standards, as well as Harold T. Goldstein and Irving Rottenberg of that office, contributed to the coordination of the Manufactures Census with the Censuses of Business and Mineral Industries and to several phases of the planning and processing of the censuses. In addition, Mr. Goldstein assisted in the planning and preparation of the textual material for the industry reports.

Robert H. Brooks, Chief of the Graphics Branch of the Administrative Service Division, was responsible for preparing the Census of Manufactures publications for reproduction. Elma D. Beynon and Ingrid L. Millison of the Statistical Reports Division reviewed text material and table forms, and assisted on publication problems.

1954 CENSUS OF MANUFACTURES FINAL REPORTS

Volume I: SUMMARY STATISTICS

Chapter

- I. General Summary
- II. Employment and Payrolls
- III. Size of Establishments
- IV. Type of Organization
- V. Manufacturers' Inventories
- VI. Expenditures for Plant and Equipment

Chapter

- VII. Horsepower of Power Equipment
- VIII. Fuels and Electric Energy Consumed
- IX. Industrial Water Use
- X. Selected Materials Consumed
- XI. Industry Specialization of Establishments
- XII. Selected Metalworking Operations

SPECIAL REPORT: Manufacturing Activity in Government Establishments. The special report also appears in Volumes II and III.

Chapters I–XII also issued as separate reports in Bulletin Series MC–200.

Volume II: INDUSTRY STATISTICS

Separate chapters for each of 81 groups of related industries. These chapters include, for approximately 460 individual industries, statistics on employment and payrolls, inventories, capital expenditures, fuels, electric energy, and power equipment as well as quantities and values of

individual products made and materials used. Also included in this volume is a general summary chapter and separate summary chapters for each of the 20 major industry groups. (The 81 industry group chapters were issued as separate reports in Bulletin Series MC–20A–MC–39E.)

Volume III: AREA STATISTICS

Separate chapters for each State, the District of Columbia, and Alaska and Hawaii. Statistics for standard metropolitan areas, counties and cities, and States by industry with cross classification by industry group for large standard metropolitan areas and principal counties. Also

included in this volume is a summary chapter for each of the nine geographic divisions. (The State chapters were issued as separate reports in Bulletin Series MC–100.)

1954 CENSUS OF MINERAL INDUSTRIES FINAL REPORTS

Volume I: Summary and Industry Statistics

Volume II: Area Statistics

1954 CENSUS OF BUSINESS FINAL REPORTS

Volume I: Retail Trade—Summary Statistics

Volume II: Retail Trade—Area Statistics

Volume III: Wholesale Trade—Summary Statistics, and Public Warehouses

Volume IV: Wholesale Trade—Area Statistics

Volume V: Selected Service Trades—Summary Statistics

Volume VI: Selected Service Trades—Area Statistics

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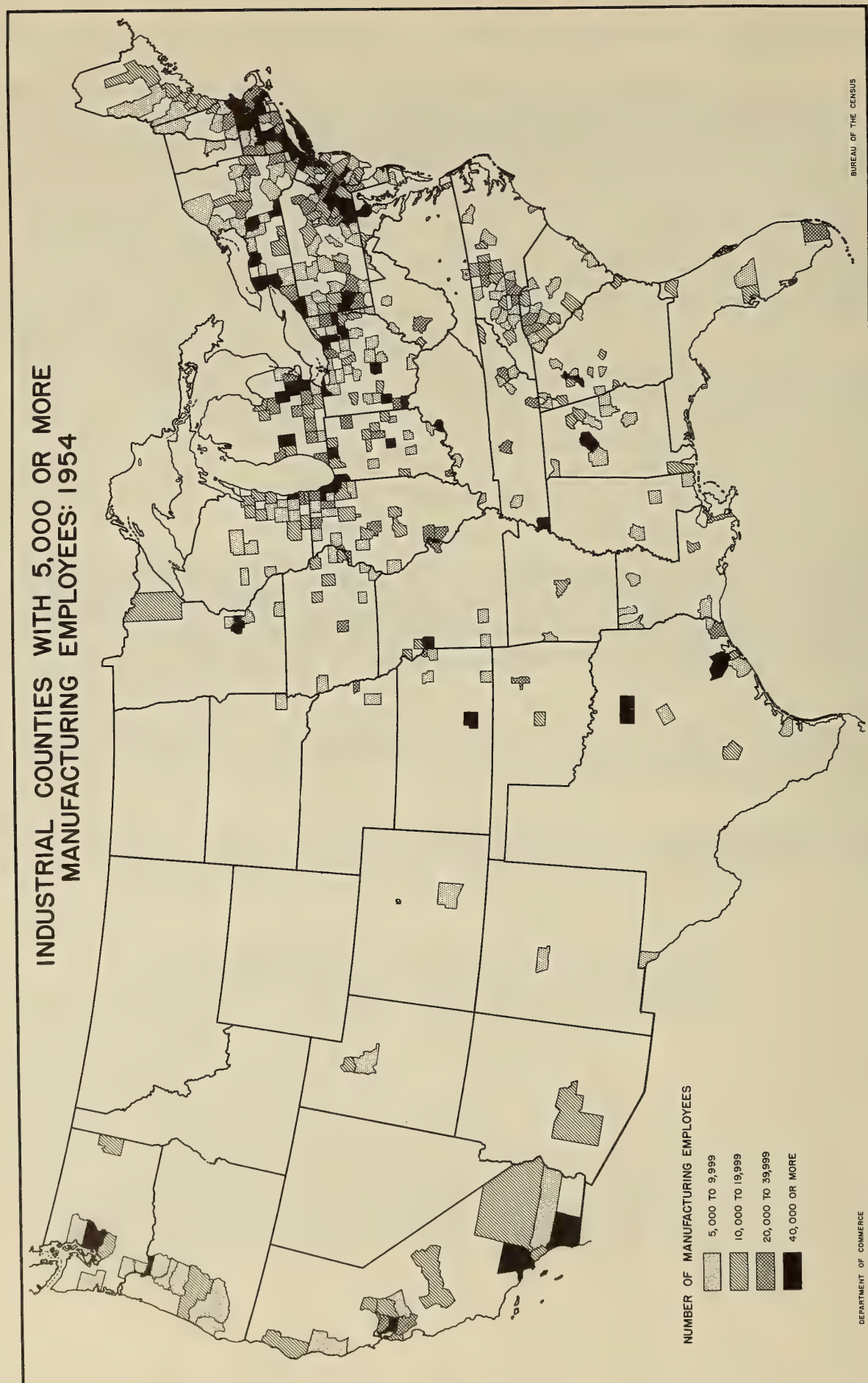
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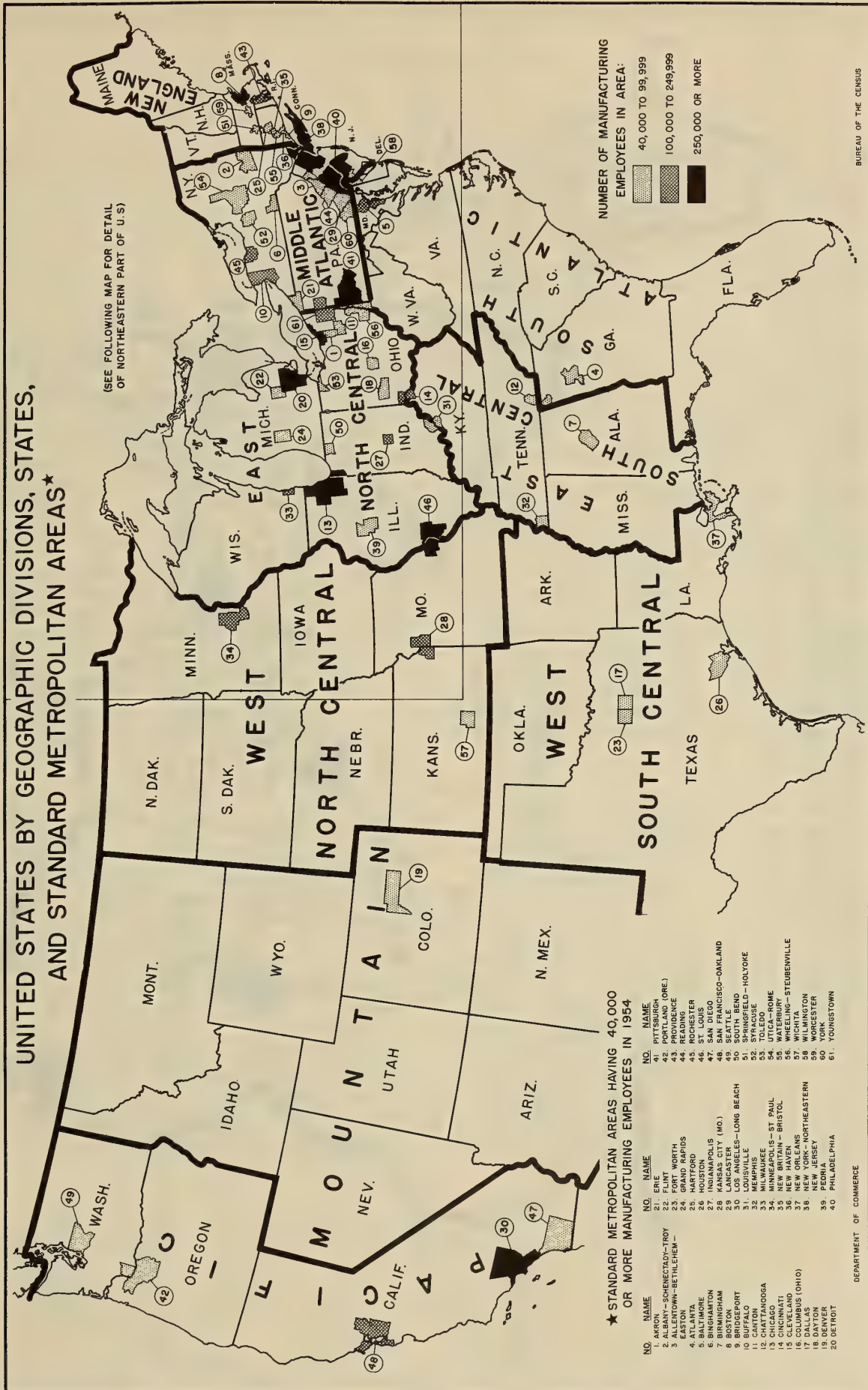
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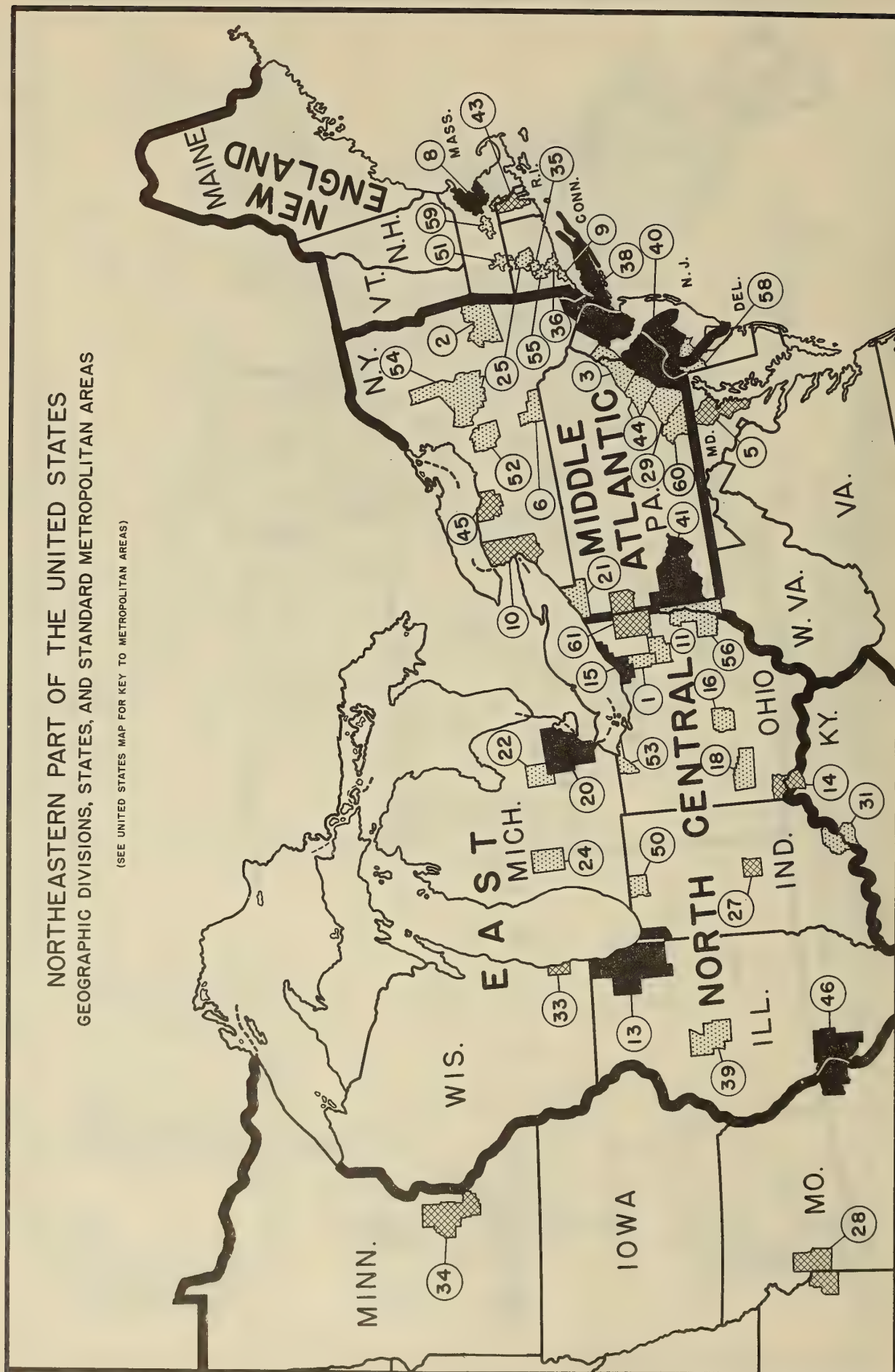
This volume includes preprinted portions of previously published Subject Bulletins (Series MC-201-212). The pages of each report were numbered independently.



UNITED STATES BY GEOGRAPHIC DIVISIONS, STATES, AND STANDARD METROPOLITAN AREAS*



(SEE UNITED STATES MAP FOR KEY TO METROPOLITAN AREAS)



INTRODUCTION

OUTLINE

1. Historical Note
2. Publication of the 1954 Census Results
3. Significance of the Manufacturing Sector of the Economy
4. Definition of Manufacturing Industries
5. Definition of Establishment
6. Industry Classification of Establishments
7. Comparability of Data with the 1947 Census of Manufactures
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33. Confidentiality of Data for Individual Companies
34. Indexes of Physical Volume of Production
35. Abbreviations

1. Historical Note

The 1954 Census of Manufactures is the twenty-fifth such census of the United States. The first Census of Manufactures covered 1809. A census was taken at 10-year intervals thereafter to 1899 (with the exception of 1829). It was conducted at 5-year intervals from 1904 through 1919, and every other year from 1921 through 1939. The census was suspended during World War II, but was resumed in 1947. Legislation enacted in 1948 provided for a Census of Manufactures every 5 years, with annual sample surveys authorized for interim years. Such Annual Surveys of Manufactures were taken covering the years 1949 through 1953.

The 1954 Census, originally scheduled for 1953, is the first complete one since 1947, the next one is scheduled for 1958. For 1954, it was conducted jointly with the Censuses of Business (Wholesale, Retail, and Services) and Mineral Industries, covering the continental United States, Alaska, and Hawaii. Separate Censuses of Manufactures and Business for 1954 were also conducted in Puerto Rico jointly with the Commonwealth Government.

2. Publication of the 1954 Census Results

Results of the 1954 Census of Manufactures are published in three volumes: Volume I, Summary Statistics, shows comparative statistics for industries, States, and principal metropolitan areas for the more important measures of the activity of manufacturing establishments--employment, payrolls, inventories, capital expenditures, value added by manufacture, important materials consumed, etc.; Volume II, Industry Statistics, is a consolidation of reports for the 81 groups of industries and shows detailed information on individual industries and products. Volume III, Area Statistics, shows for each State and its important metropolitan areas and industrial counties, general statistics (number of establishments, number of employees, payrolls, value added by manufacture, and capital expenditures) for each of the industries of consequence in that State or in its principal metropolitan areas. Totals for all manufacturing are shown for all counties and for cities of 10,000 inhabitants or more. Supplemental reports such as that covering the Index of the Physical Volume of Production are also published.

3. Significance of the Manufacturing Sector of the Economy

Manufacturing is the largest of the industrial sectors in the economy. Table A below shows that manufacturing accounted for approximately 30 percent of the total national income. The next largest sector, wholesale and retail trade, contributed only slightly in excess of 17 percent.

Table B shows the relative importance of the major industry groups within manufacturing based on value added by manufacture. It should be noted that the concept of value added by manufacture which is used by the Bureau of the Census is different from the national income measure used by the Office of Business Economics. See section 23 of this Introduction: Value added by Manufacture, for discussion of the two concepts.

Table A.--NATIONAL INCOME BY PRODUCING SECTOR, 1954

(In millions of dollars)

Industry group	National income	Percent of total
All industries, total.....	298,335	100
Manufacturing.....	89,555	30
Agriculture, forestry and fisheries....	16,688	6
Mining.....	5,021	2
Contract construction.....	15,466	5
Wholesale and retail trade.....	50,754	17
Finance, insurance and real estate.....	28,103	9
Transportation.....	14,605	5
Communications and public utilities.....	10,693	3
Services.....	29,817	10
Government and government enterprises...	35,803	12
Rest of the world.....	1,830	1

SOURCE: Department of Commerce, Survey of Current Business, July 1956.

Table B--VALUE ADDED BY MANUFACTURE BY MAJOR INDUSTRY GROUP, 1954
(In millions of dollars)

Code	Industry group	Value added by manufacture	Percent of total
	TOTAL.....	116,913	100
20	Food and kindred products.....	13,400	11
21	Tobacco manufactures.....	988	1
22	Textile mill products.....	4,749	4
23	Apparel and related products...	5,147	4
24	Lumber and products, except furniture.....	3,188	3
25	Furniture and fixtures.....	1,966	2
26	Paper and allied products.....	4,581	4
27	Printing and publishing industries.....	6,265	5
28	Chemicals and allied products..	9,444	8
29	Petroleum and coal products....	2,209	2
30	Rubber products.....	1,904	2
31	Leather and leather products...	1,637	1
32	Stone, clay and glass products..	3,822	3
33	Primary metal industries.....	9,747	8
34	Fabricated metal products.....	7,596	7
35	Machinery (except electrical)..	12,339	11
36	Electrical machinery.....	7,403	6
37	Transportation equipment.....	13,926	12
38	Instruments and related products.....	2,129	2
39	Miscellaneous manufactures.....	4,473	4
19	Ordinance and assessories.....		

4. Definition of Manufacturing Industries

The 1954 Census of Manufactures covers all establishments primarily engaged in manufacturing as defined in the Standard Industrial Classification Manual, Volume I, Manufacturing Industries, dated November 1945, as amended by the Bureau of the Budget. This system of classification is in general use among Federal agencies. The Manual defines manufacturing as the mechanical or chemical transformation of inorganic or organic substances into new products. The assembly of component parts of products is also considered to be manufacturing if the resulting product is neither a structure nor other fixed improvement. These activities are usually carried on in plants, factories, or mills, which characteristically use power-driven machines and materials-handling equipment.

Manufacturing production is usually carried on for the wholesale market, for transfer to other plants of the same company, or to the order of industrial users or government departments rather than for direct sale to the household consumer. Some manufacturers in a few industries sell chiefly at retail to household consumers through the mail, through house-to-house routes, or through salesmen. Some activities of a service nature (enameling, engraving, etc.) are included in manufacturing when performed primarily for the trade but are considered nonmanufacturing when performed primarily to the order of the household consumer.

The Standard Industrial Classification was developed on the basis of the following principles:

(1) The classification should conform to the existing structure of American industry;

(2) The reporting units to be classified are establishments rather than legal entities or companies; each establishment is classified according to its major activity;

(3) To be recognized as an industry, each group of establishments must have significance from the standpoint of value of sales, employment and other important economic measures. In addition, it is essential that each industry comprise a group of establishments whose output of the products defining the industry (primary products) accounts for a relatively high proportion of the total shipments of the industry as well as of the total shipments of these primary products by establishments in all manufacturing industries.

The Standard Industrial Classification Manual, issued November 1945, was amended slightly by the Bureau of the Budget prior to the 1954 Census. In classifying establishments by industry in the 1954 Census of Manufactures, the Census Bureau followed the amended version of the Standard Industrial Classification. The amendments to the 1945 edition of the standard classification are described in detail in Appendix B.

The following types of activities, while having many of the characteristics usually found in manufacturing, are defined as nonmanufacturing by the Standard Industrial Classification and, therefore, are excluded from the Census of Manufactures:

(a) Processing on farms when the raw materials are grown on the farm and the manufacturing activities (poultry dressing, milk and butter production, logging) are on a small scale without extensive use of paid labor. Also custom milling, cotton ginning, and similar activities.

(b) Mineral preparation such as the crushing, screening and concentrating of ores. However, mining performed as a secondary activity in conjunction with manufacturing is included in the Census of Manufactures; for example, stone and clay mining at cement, lime and clay products plants.

(c) Custom work to the individual order of household consumers. Examples are custom tailoring, woodworking, lettering on monuments, setting of diamonds and the making of orthopedic appliances.

(d) Repair and other service activities, except specified services performed "for the trade." Machine shops engaged exclusively or almost exclusively in repair work and repair shops of railroads are also excluded.

(e) Production of coke for own use by establishments owned by public utility companies.

Consistent with the Standard Industrial Classification, the Manufactures Census does not cover manufacturing when performed (1) by retail establishments which sell most of their products on the premises directly to household consumers, e.g., retail bakeries, ice cream stores, and feed stores, (2) by contractors at the side of construction, e.g., production of paving mixtures (3) by educational, eleemosynary and penal institutions.

It is not unusual for manufacturing establishments to engage also in such nonmanufacturing activities as repair work, merchandising of products without further processing, and installation work. Ordinarily, such nonmanufacturing receipts are small in relation to the manufacturing activities and, in such instances, it is not difficult to determine that the establishments should be included in the manufacturers area. However, where these nonmanufacturing activities account for a significant proportion of total receipts of an establishment, the allocation of that establishment to the appropriate major economic sector is more difficult.

In the 1954 Economic Censuses, an establishment engaged in a combination of manufacturing and merchandising was assigned either to the manufacturing or the trade industries depending on which of these activities was estimated to account for the larger share of its "value added" or "income produced." This criterion, even though based on an approximation, was considered preferable to reported dollar volume of receipts from each type of activity, since manufacturing requires considerably more man-hours, salaries and wages, and other inputs per dollar of receipts than either wholesaling or retailing. In the case of establishments engaged in manufacturing and also in mining, repair work, installation or other nonmanufacturing services, dollar receipts were used as a reasonably valid basis of classification because these activities require substantially comparable inputs per dollar of receipts.

The concurrence of the Censuses of Manufactures, Business and Mineral Industries in the same year provided a more complete universe from which to canvass and classify establishments than did the previous Census of Manufactures which was taken a year before the 1948 Census of Business. Establishments engaged in a combination of manufacturing and nonmanufacturing activities or factories incorrectly mailed a Business or Mineral

Industries report form (and vice versa) were included in the appropriate Census on the basis of the nature of business description and other information, such as products made or resold or services performed called for on the Census report forms. However, the resulting improvement in the coverage of manufacturing between the two Census years was generally limited to small plants in certain industries and did not appreciably affect comparability of data for manufacturing as a whole or for the great majority of industries. For those industries where there is a problem of comparability for this reason, e.g., poultry dressing, tobacco stemming and redrying, the descriptive text for the industry affected discusses the nature of the change.

Data were obtained on the manufacturing activities during 1954 of establishments owned and operated by the Federal Government (military arsenals, Navy yards, etc.) and of Federal and State prisons for the purpose of presenting complete information on manufacturing operations in the United States. Statistics on the employment, value added by manufacture and products manufactured by these establishments are shown in a separate chapter in each Manufactures Volume. Such data are not included elsewhere in the Census tables and, thus, are not represented in any of the individual industry or industry group totals appearing in the Volumes. Information on Government-owned, privately-operated establishments is included throughout the Census tables in the appropriate 4-digit industry on the same basis as privately-owned and operated plants.

5. Definition of Establishment

The Census of Manufactures is conducted on an establishment basis. That is, a company operating establishments at more than one location is required to submit a separate report for each location; also, companies engaged in distinctly different lines of activity at one location are required to submit separate reports if the plant records permit such a separation and if the activities are substantial in size. Census tabulations of establishment reports, therefore, differ substantially from those prepared on a company basis, i.e., from consolidated reports which not only combine manufacturing activities at different locations (thereby eliminating interplant transfers) but also include the nonmanufacturing activity of the company. Census figures will also differ to some extent from other tabulations based on establishment reports where the definition of an establishment as to location and line of activity is not applied in the same way.

The requirement that distinct lines of activity at the same location be separately reported was selectively applied. Consolidated activities at a single location are of two general types: (1) Where vertically integrated processes are present; that is, where basic or intermediate materials are produced for use in manufacturing final products of the plant. These are typified by the integrated paper mill which produces pulp, converts that pulp into paper and frequently goes on to make a variety of converted paper products; the steel mill which is integrated with a blast furnace and coke oven; and the operation of foundries, forge shops, etc., by plants producing machinery or other metal products. Typically, separate reports were obtained in the 1954 Census for the pulp-paper-converting or blast furnace-coke-steel mill types of integration. Much less commonly, and in fact only when it was more convenient for the company to report that way, was a separate census return submitted for integrated operations of the captive foundry or forge shop type. There are certain uncommon types of vertical integration such as tin can plants at canneries and steel mills at metalworking plants, which were usually separately reported. (2) Where the establishment produces and ships significant amounts of products classified in different S.I.C. industries. In widely varying degrees this product overlap exists in many manufacturing establishments. Generally, the amounts involved are not of serious proportion and, even if feasible, the filing of separate reports would not be warranted as a practical matter. However, there are a number of plant locations at which 100 or more employees are engaged in each of two or more distinct lines of manufacturing as defined in the Standard Industrial Classification. The Census Bureau requested separate reports in such instances in the 1954 Census, pointing out to the respondent that a limited amount of proration or esti-

imating was acceptable in the preparation of such reports. For the most part, the effort was successful, particularly in the case of very large operations where failure to "split out" the different activities would have significantly distorted the relationship of the industry and product statistics. Not infrequently, though, the two groups of products were made on the same production lines, by many of the same employees, and could not be distinguished sufficiently in the companies' records to provide establishment-type reporting. The extent to which such separations could not be achieved combined with the overlap contributed by the smaller plants (those with less than 100 employees) is shown for each industry in Tables 5A and 5B of the appropriate chapter of Volume II, Industry Statistics. It is planned that the 1954 Census of Manufactures will be the last one in which separate reports will be required for the several major activities at integrated paper mills and steel mills, although it is expected that selected key items of information will be obtained separately for the major types of activities.

For the 1954 Census, as for earlier censuses, a minimum size limit was set for establishments to be included. In both the 1954 and 1947 Censuses, reports were required from all establishments employing one or more persons at any time during the census year, whereas in prior censuses, establishments with less than \$5,000 value of products were excluded. The change in the minimum size limit in 1947 does not appreciably affect the historical comparability of the Census figures except for data on number of establishments for a few industries.

6. Industry Classification of Establishments

Each of the establishments covered in the census was classified in one of approximately 450 manufacturing industries in accordance with the industry definitions embodied in the Standard Industrial Classification system (see Appendix A). Under this system of classification, an industry is generally defined as a group of establishments producing a single product or a more or less closely related group of products. The product groupings from which industry classifications are derived are based on such considerations as whether they are typically produced by the same establishment, similarity of manufacturing processes, types of material used, types of customers, and the like. The group of products assigned to an industry is said to be "primary" to that industry. Accordingly, an establishment is classified in a particular industry if its production of the primary products of that industry exceeds in value, its production of products of any other single industry. In a few instances, however, the industry classification of an establishment is determined not only by the products it makes but also by the processes employed or materials used in making those products.

While some establishments produce only the primary products of the industry in which they are classified, it rarely happens that all the establishments in an industry specialize to this extent. The general statistics (employment, inventories, value added by manufacture, etc.) shown for an industry, therefore, reflect not only the primary activities of the establishments in that industry but also their activities of a secondary nature. For this reason, in relating industry statistics to product statistics showing shipments by all industries of the primary products of that industry, the composition of the industry's output as shown in Tables 5A and 5B of the Industry Volume should be considered. The extent to which industry and product statistics can be related is measured by two ratios which are available in Table 5A of the Industry Volume. The first of these ratios, called the primary product specialization ratio, describes the proportion of product shipments (both primary and secondary) of the industry represented by primary products. The second, defined as the coverage ratio, is the proportion of primary products shipped by the industry to total shipments of such products by all manufacturing industries.

The primary product specialization ratio measures the homogeneity of each 4-digit industry only in terms of the final products of its establishments. The industry may lack high homogeneity, and many of them do, in other equally or more important characteristics such as processes used, materials consumed, etc. There is substantial variation in types of produc-

tion processes and in the degree of integration of those processes for individual plants within separate S.I.C. industries throughout the classification structure. This may occur because of the variety of products falling into a single industry classification, e.g., industries such as photographic equipment, scientific instruments and toys. However, even where the primary products of the industry are reasonably narrowly defined, the processes carried on by particular establishments in the industry may be markedly different.

There are many examples of diversity of manufacturing operations among establishments in an industry. In the Woolen and Worsted Fabrics Industry, some of the plants perform all the operations from processing the raw fiber to the finishing of the fabric whereas other plants in the same industry limit their activities to weaving the fabric. In the metal fabricating industries, plants may operate a wide variety of metal processing departments (e.g., foundry, machine shop, plate fabrication) or may be solely engaged in the assembly of component parts purchased from other manufacturers. For example, in the refrigeration industry (Industry 3585) there are instances of almost complete integration in which the production of the compressor and condensing unit, electric motor and even the stamping of the case as well as the final assembly are all carried on at one plant. There are also strictly assembly plants and plants with various combinations of particular processes to be found in that industry.

These differences among plants in the same industry have a profound effect on the relationship between labor costs and material costs. As a consequence, in many industries there is a wide dispersion among individual establishments in such important ratios as payrolls to shipments and material costs to shipments. The 1954 Census does not provide any across-the-board measure of this diversity as it does for product mix through the specialization ratio.

For many industries, separate statistics are given on the manufacture of intermediate products for use within the same plant. This practice has been followed for many earlier censuses in the pulp and paper, textile fiber, yarn and fabric and certain chemical industries. In the 1947 and 1954 Censuses, the approach was expanded to include captive castings, motor and engine facilities and for the entire metalworking area an inquiry was added to show captive metal fabricating facilities such as stamping facilities, machine shops, and the like.

The texts in the Industry Volume describe the nature of variations in types of processes used and the production of intermediate parts and components in the same plant for those industries where such situations are especially significant. Differences in the integration of production processes, types of operations and the like should be taken into consideration together with the specialization and coverage ratios when using the industry statistics (employment, value added, materials used, etc.) and in relating these figures to the product data.

7. Comparability of Data with the 1947 Census of Manufactures

The 1947 figures include revisions of previously published 1947 Census totals and are comparable with the 1954 data (except as specifically noted in the tables or accompanying text.)

Two important changes were made in the scope of the 1954 Census of Manufactures which affected the comparability of State and selected industry statistics with the data from the 1947 Census of Manufactures.

(a) In the 1954 Census of Manufactures, the processing of milk (pasteurizing, homogenizing, vitaminizing, bottling) was defined as a manufacturing activity. For the 1947 Census establishments shipping any fluid milk were excluded from manufacturing industries regardless of their primary activity, in accordance with the 1945 edition of the Standard Industrial Classification Manual. Furthermore, in 1954 establishments processing and distributing fluid milk and other dairy products were classified on the basis of the primary product or activity of the establishment.

(b) In the 1947 Census of Manufactures, Logging Camps and Contractors (S.I.C. 2411) were excluded. In addition, only Sawmills and Planing Mills (S.I.C. 2421) that cut more than 200,000

board feet of lumber were included. On the other hand, for 1954, all loggers and sawmills with one or more paid employees as reported to the Bureau of the Old-Age and Survivors Insurance were included in the Census. In 1954, the loggers accounted for more than 11 percent of the national employment in Major Industry Group 24, Lumber and Wood Products. It is estimated that sawmills and planing mills producing less than 200,000 board feet accounted for less than 2 percent of national employment for the group.

The above changes have been noted in the appropriate tables and where significant, data are provided on a comparable basis for the two census years.

8. Geographic Areas

(a) Census divisions and regions.--In order to present census data at a level intermediate between the United States and the individual 48 States, the Census Bureau has used regional groupings for over a century. Since the 1909 Census of Manufactures, the present nine geographic divisions have been used. Beginning with the 1939 Census, the nine divisions were grouped also into four major geographic regions; Northeast, South, North Central and West.

Not only are these groupings convenient for the summary presentation of census data below the U. S. level, but they are essential to presenting maximum geographic information for those individual industries in which application of the Census disclosure law precludes the publication of individual State data. (See section on "Confidentiality of Data for Individual Companies" for a discussion of the disclosure rules.) The relative importance of manufacturing in 1954 among the several States and regions is shown in Table C.

(b) Standard metropolitan areas.--In addition to the legally constituted geographic units--States, counties, and cities--"All manufacturing" totals have been tabulated for the approximately 170 standard metropolitan areas, while industry group (3-digit) statistics have been tabulated for those areas reporting at least 40,000 manufacturing employees either in 1947 or 1954. (Industry group statistics for such areas are presented in Area Volume Table 5. There are 62 areas meeting this employment criterion.)

Except in New England, a Standard Metropolitan Area is a whole county or group of contiguous counties which contain a city (or cities) of 50,000 inhabitants or more. The inclusion of contiguous counties in a Standard Metropolitan Area is determined by the application of certain criteria aimed at measuring the metropolitan character of the county or counties and the degree of social and economic integration with the central city. An area may contain not only highly industrialized counties but also adjoining counties which, though primarily residential in character, contribute significantly to the industrial counties' labor force. A standard metropolitan area is generally more restricted than the market or trading area. In the New England States, similar integration criteria have been applied in defining standard metropolitan areas, but on a city and town, rather than on a county basis. The town is a more satisfactory statistical unit than the county in this region of the country. The Standard Metropolitan areas were defined by the Federal Committee on Standard Metropolitan Areas of the U. S. Bureau of the Budget for general-purpose use throughout the Federal government in presenting economic and social data.

The requirement that each standard metropolitan area consist of county units (except in New England) sometimes results in the inclusion in an area of a considerable amount of territory which would not ordinarily be considered "metropolitan," much less "industrial." It is recognized that metropolitan areas could be more accurately defined in terms of smaller area segments such as minor civil divisions, but the usefulness of areas so defined would be limited by the fact that many types of economic and social data are available only on a county basis. Moreover, so far as the Census of Manufactures is concerned, the inclusion in the metropolitan area of large tracts of agricultural or forest land is of little importance, since their contribution to the industrial activity of the area is usually negligible.

Table C.--VALUE ADDED BY MANUFACTURE BY DIVISION AND STATE, 1954

Division and State	Value added by manufacture (millions)	Per-cent	Division and State	Value added by manufacture (millions)	Per-cent	Division and State	Value added by manufacture (millions)	Per-cent
United States, total	\$116,913	100.0	West North Central--Con.			West South Central..	\$5,721	4.9
New England..	9,128	7.8	Missouri.....	\$2,727	2.3	Arkansas.....	457	.4
Maine.....	565	.5	North Dakota.....	35	.1	Louisiana.....	1,182	1.0
New Hampshire.....	409	.3	South Dakota.....	78	.1	Oklahoma.....	581	.5
Vermont.....	223	.2	Nebraska.....	394	.3	Texas.....	3,502	3.0
Massachusetts.....	4,356	3.7	Kansas.....	1,049	.9			
Rhode Island.....	697	.6	South Atlantic.....	10,658	9.1	Mountain.....	1,505	1.3
Connecticut.....	2,877	2.5	Delaware.....	353	.3	Montana.....	141	.1
Middle Atlantic.....	30,402	26.0	Maryland.....	1,889	1.6	Idaho.....	182	.1
New York.....	14,149	12.1	District of Columbia	157	.1	Wyoming.....	51	.1
New Jersey.....	6,331	5.4	Virginia.....	1,629	1.4	Colorado.....	472	.4
Pennsylvania.....	9,930	8.5	West Virginia.....	988	.8	New Mexico.....	126	.1
East North Central.....	36,501	31.2	North Carolina.....	2,210	1.9	Arizona.....	192	.2
Ohio.....	10,165	8.7	South Carolina.....	1,041	.9	Utah.....	276	.2
Indiana.....	4,625	4.0	Georgia.....	1,592	1.4	Nevada.....	63	.1
Illinois.....	9,669	8.3	Florida.....	798	.7			
Michigan.....	8,707	7.4	East South Central.....	4,702	4.0	Pacific.....	11,184	9.6
Wisconsin.....	3,334	2.8	Kentucky.....	1,236	1.1	Washington.....	1,549	1.3
West North Central.....	7,114	6.1	Tennessee.....	1,679	1.4	Oregon.....	1,037	.9
Minnesota.....	1,595	1.4	Alabama.....	1,319	1.1	California.....	8,598	7.4
Iowa.....	1,236	1.0	Mississippi.....	468	.4			

Note: Detailed figures may not add to the totals because of independent rounding.

Each standard metropolitan area is designated by the name of the principal city of the area. In addition to the name of the principal city, the area title may include a maximum of two additional city names.

(c) Principal industrial counties.--In addition to industry group (3-digit) statistics for standard metropolitan areas with 40,000 or more manufacturing employees, the Census of Manufactures presents data in Area Volume Table 6, by major (2-digit) industry groups, for each "principal industrial county." A "principal industrial county" is one having 20,000 or more manufacturing employees in either 1947 or 1954. (There are 143 counties, or their equivalents, meeting this criterion.)

Although it is not feasible to show detailed industry data for most counties because of the disclosure law, the principal industrial county statistics supplement the data for metropolitan areas in two ways: First, they provide industrial information for the principal counties of some of the smaller metropolitan areas (many of which are, in fact, one-county-areas). Second, they provide information on the variations by county in industrial structure within the larger multicounty metropolitan areas.

(d) Cities of 10,000 inhabitants or more.--As in 1947, summary totals are presented for each individual city having 10,000 inhabitants or more. No industry detail is shown for individual cities. Because of the precedence given to standard metropolitan areas and principal industrial counties, most industry data even for large cities would necessarily be withheld from publication to avoid disclosure of individual company data by subtraction.

(e) Water use regions.--To present data on water use in manufacturing, together with related Census data on manufacturing activity, the country was divided into 18 water use regions. These regions typically represented combinations of river basins. The definitions of these water use regions were developed in consultation with other federal agencies having responsibilities for water development or use and with representatives of private industry.

Boundaries of water use regions generally follow the summits of watersheds and do not follow State boundaries. For practical reasons, however, water use regions are defined in terms of whole counties. Statistics are presented in the Summary Volume for each of these regions on the ratio of gallons of water intake per employee in addition to the total gallons of water intake, source of water, etc. Similar information is also presented for selected industries and counties within the water use regions.

9. The Census Report Forms

Although only one report was required from each establishment in the 1954 Census of Manufactures, the diversity of manufacturing activities made it necessary to use some 200 different report forms to canvass the approximately 450 manufacturing industries. In order to obtain the data essential to the census in a manner consistent with considerations of cost and reportability by the respondent, standard forms requiring full census detail were used only for those manufacturing plants above a given size in terms of number of employees (generally six or more employees). For the numerous smaller establishments, typically having less detailed records and representing a very minor portion of manufacturing output and employment, data requirements were limited to a relatively few key items on a general short form. In the case of a few industries where such small plants typify the industry (thus accounting for a substantial portion of its total in their aggregate), modified versions of short forms were used. However, all multiplant companies were sent the appropriate standard form for each of their establishments regardless of the size of establishment.

It was possible in this Census, using the administrative records of the Bureau of Old-Age and Survivors Insurance in conjunction with existing Census records, to determine correctly, in most cases, which report form was required for each manufacturing establishment before the mailing.

Information was obtained on all 1954 forms regarding the physical location, Social Security employer identification number, company affiliation, and form of ownership. These facts not only provided for completeness-of-coverage control in the census (see section 11, Development of the Mailing List), but also permitted the classification of each establishment by geographic location and type of legal organization.

(a) Standard Forms.--Each standard form called for virtually the same general plant items--employment, payrolls, man-hours, summary of materials cost, detailed fuels and electric energy costs, horsepower of installed equipment, water usage, inventories, and capital expenditures. However, the forms differed in that detailed inquiries on the quantity and value of individual products shipped and individual materials consumed as well as miscellaneous inquiries such as types of operation, equipment, and class of customer were adapted to the individual industry or industry group. These adaptations in product and material inquiries resulted in 192 different report forms for the manufacturing industries.

(b) General Short Form.—This form, designed for establishments with less than six paid employees and not part of a multi-unit company, was an abbreviated version of the standard form requesting limited general and product information typically available from the records of smaller manufacturers. For example, only total employment and payroll figures were requested, without detail by functional class of employees (i.e., production workers, force-account construction workers, and all other employees); production-worker man-hour figures were not required. Instead of detailed information on individual products shipped, the short form requested the respondent to indicate only his value of shipments in terms of product classes, a reference list for which was enclosed to provide consistency in reporting.

(c) Modified Short Forms.—In manufacturing as a whole and in most industries, very small establishments accounted for only a minor part of employment or production. Establishments with less than six employees accounted for less than two percent of value added by manufacture. However, for a few industries, smaller plants constituted a significantly large proportion of the total. For these industries, modified short forms were used, with the same establishment type inquiries (i.e., employment, inventories, etc.) as appeared on the general short form. In the materials and product sections of these forms, however, greater detail was required, approaching the materials and product sections of the standard form counterparts for these industries. The industries covered in this manner were: Logging and Sawmills, Concrete Products, Dairy Products, and several printing and publishing industries.

In addition to the report forms described above, there were several special forms used in 1954 to obtain information on related activities of manufacturing companies.

(d) Form for Manufacturing Plants Under Construction During 1954.—This form was designed to obtain data on capital expenditures by manufacturing firms for new plants under construction during 1954 but not in operation by the end of the year. A regular census report of the type described in (a)-(c) above was not obtained from such establishments. The new plant form was sent to the 1,700 largest manufacturing firms, and to a sample of 600 other manufacturing companies. (For a discussion of the purpose and use of this form, see section 25, "Expenditures for Plant and Equipment.")

(e) Form for Separate Central Administrative Offices and Auxiliaries of Manufacturing Companies.—Separate reports for each central administrative office and auxiliary unit (e.g., storage warehouses, power plants, research laboratories, garages, repair shops, etc.), which served the manufacturing establishments of the company rather than the general public, were obtained from the company if they were at locations different from the establishments served or if they serviced more than one manufacturing establishment. The report form included inquiries on payrolls, employment, inventories, sales and warehouse storage space. In the manufacturing field, there were approximately 4,200 such establishments in 1954, about evenly divided between administrative offices and auxiliary units. They accounted for 470 thousand employees with payrolls of almost \$3 billion, which represents 3 percent and 4.5 percent, respectively, of the totals for all manufacturing.

The employment, payroll and other related data for separate administrative offices and auxiliaries are not included in the operating manufacturing establishment totals, either for individual industries or industry groups. The employment and payrolls of such administrative offices and auxiliaries are, however, shown separately and also included in the "all manufacturing" totals in selected tables in the Summary and Area Volumes, e.g., Table 1 of each State report.

(f) Supplemental Form for Industrial Water Use.—On all standard forms, the respondent was asked to indicate, in terms of broad size ranges, the amount of water intake at his plant during 1954. Plants indicating the use of "20 million gallons or more" were defined as large water users. Based on results in the 1953 Annual Survey of Manufactures, it was estimated that this group of plants accounted for about 95 percent

of the total use of water in manufacturing. For 1954 each large user was sent an "Industrial Water Use" form, which requested information on water intake by broad use (processing, cooling, etc.), by type of water (fresh or brackish), and by source (public or private systems) as well as the amount of water recirculated and treated. The water use statistics obtained in the 1954 Census appear in the Summary Volume only.

10. Comparison with 1947 Census Report Forms

In most respects, the inquiries on the 1954 standard Census forms were similar to those of the 1947 Census. However, there were some significant differences as follows: A 1947 classification of employees distinguishing clerical and routine office workers from other non-production personnel was dropped in the 1954 Census. Also, the 1947 item, "analysis of payroll ended nearest Oct. 15th", which included an employment distribution by sex was omitted in the 1954 Census. Further, the 12 monthly employment figures requested in 1947 were reduced to 4 selected months in 1954 except for report forms for highly seasonal industries.

The two-fold distribution of inventories in 1947 (finished products and all other inventories) was expanded in 1954 to a three-fold distribution in which work-in-process inventories were requested as a separate figure. On the other hand, the capital expenditures inquiry was abbreviated by the elimination of the subclasses under expenditures for new plants ("buildings" and "other construction") and by dropping of the subclasses under expenditures for new machinery and equipment ("production machinery and equipment" and "other machinery and equipment").

The industrial water use and horsepower rating inquiries of the 1954 census had no counterparts on the 1947 schedules. Conversely, the 1947 inquiry on highway-type motor vehicles was omitted in 1954.

The 1947 short forms, which were used on a more limited basis (ordinarily for one-employee establishments, except for small sawmills and printing establishments for which a higher employment cut-off was used), were similar in content to the 1954 short forms. In contrast to 1954, the 1947 forms, however, did not require separate figures on cost of contract work, value of total inventories, or total capital expenditures.

11. Development of the Mailing List

The basic mailing list for the 1954 Censuses of Manufactures, Business and Mineral Industries comprised all employers (except farmers, State and local governments, and other ineligible classes) who made one or more quarterly payments in 1954 under the Federal Insurance Contributions Act. The list, which was obtained from the Internal Revenue Service (IRS) of the Treasury Department, contained all of the information necessary for mailing the Census questionnaires except the industry classification of the employer.

The IRS list was matched with various lists containing the industry code number (Standard Industrial Classification) which was required for selection of the appropriate Census report form. The matching operations done mechanically on punch card collating equipment, were made possible by the fact that both the IRS list and the classified lists contained the Social Security employer identification (E.I.) number.

While the IRS list was the basic control mechanism for the Census of Manufactures, the mailing list for the 1953 Annual Survey of Manufactures was the principal device for mailing to large companies. This survey included all large manufacturing establishments (i.e., those with 100 or more employees), which in 1954 accounted for 74 percent of total employment. For smaller establishments, the principal source of industry codes was the "employer master file" of the Bureau of Old-Age and Survivors Insurance (BOASI) of the Social Security Administration. The latter file was supplemented by independent lists for two industrial areas, apparel jobbers and milk bottlers. (The apparel jobber information came from a census commodity survey; the dairy list from an industry source.)

Further mailing list supplementation was necessary for "Multi-unit" companies—those with more than one manufacturing, mining or business establishment. In addition to the 1953 Annual Survey of Manufactures, which provided the principal source of information regarding manufacturing plants of multiunits, a limited pre-cavass was conducted by use of Form NCX-1. This form was sent to about 7,000 large companies and called for a listing of subsidiary corporations. The questionnaires for the smaller multiunits were selected on the basis of BOASI information.

Concerns having Employer Identification (E.I.) numbers on the IRS list which did not match the classified lists, and cases where the E.I. numbers matched but the classified lists did not provide sufficient information for selection of a specific questionnaire, were canvassed by means of a general schedule (NCX-3). The industry code of employers thus canvassed was assigned after receipt of the NCX-3 form on the basis of the information reported on that form. When the establishment filing the NCX-3 form was large or where otherwise necessary, additional information was obtained to complete the appropriate inquiries for the industry to which the establishment was assigned.

In the 1954 Census the report forms were distributed and returned by mail. Personal or telephone contact was made only when the manufacturer failed to respond to the initial request or to followup letters. All forms for larger establishments (in general, those with 6 or more employees) were mailed and the followup was controlled from Washington. Questionnaires for smaller establishments were mailed and controlled in the Census Bureau field offices.

12. Completeness of Coverage

For the 1947 Census, coverage was checked by an intensive field study of sample geographic areas, designed to measure losses due both to deficiencies in the original mailing list and to errors in processing (e.g., industry coding) after the questionnaire had been mailed and received. The results of this study indicated that 98.2 percent of the total manufacturing employment and 98.7 percent of total wages and salaries were covered in the 1947 Census statistics. The undercoverage was largely limited to small establishments and was of some importance in industries where establishments frequently combine manufacturing and merchandising activities (for example, production of prepared feeds combined with the retailing of farm supplies). Establishments operating during only part of the Census year, and unincorporated enterprises, constituted a significant proportion of those establishments omitted from the Census totals.

Since deficiencies in the 1947 mailing list were largely responsible for the relatively small "losses" incurred that year and since the 1954 mailing list was considered to be complete, no field coverage check was conducted for the 1954 Census. At various stages of processing of the reports, instead, coverage checks were conducted with the aim of determining whether establishments on the original mailing list were represented in the processing stage under scrutiny. For example, one such check indicated virtually complete mailing of reports to all names on the mailing list. The omissions brought to light through these checks were corrected, (i.e., either the missing reports were located or new reports were obtained). A final check, conducted after the close of collection operations, evaluated completeness of coverage of all establishments in the BOASI files with more than 100 employees. As a result, "missing" establishments in this size group were restored to the tabulations. This final over-all check was not extended to smaller establishments, but a few instances of omission of smaller establishments were discovered and corrected during the review of the Census tabulations.

A large proportion of the omissions discovered (and corrected) among establishments with more than 100 employees was attributable to difficult problems of coverage control among multi-establishment companies. Coverage control was much less difficult for "independent" establishments (companies with only one manufacturing location) and for this reason it was assumed that the

loss rate among small establishments which are largely "independents", was insignificant.

13. Manufacturing Employees--Classifications Used

(a) All employees.--The category "all employees" comprises all full-time and part-time employees on the payrolls of operating manufacturing establishments who worked or received pay for any part of the pay period ended nearest the 15th of the months specified on the report form. Included are all persons on paid sick leave, paid holidays and paid vacation during these pay periods; excluded are members of the armed forces and pensioners carried on the active rolls but not working during the period. Officers of corporations are included as employees; proprietors and partners of unincorporated firms, are, however, excluded from the total. Employment at separate administrative offices and auxiliary units is excluded from this category. (See 13b below.)

This total of manufacturing employment is divided into three standard functional classifications (in accordance with the Bureau of the Budget's Standard Specifications for Employment Reports of November 1955, for use by manufacturing establishments in reporting employment, payrolls, and man-hour data), as follows:

Production and related workers.--Workers (up through the working foreman level) engaged in fabricating, processing, assembling, inspection, receiving, storage, handling, packing, warehousing, shipping (but not delivering), maintenance, repair, janitorial, watchman services, product development, auxiliary production for plants' own use (e.g., power plant), record keeping, and other services closely associated with these production operations at the establishment covered by the report. Supervisory employees above the working foreman level are excluded from this category.

Force-account construction workers.--Employees on the payroll of the manufacturing establishment who are engaged in the construction of major additions or alterations to the plant and who are utilized as a separate work force. (Workers engaged in regular maintenance and repair operations are not included here but are classified in the "production and related workers" category.)

All other employees.--Nonproduction personnel of the manufacturing establishment, including those engaged in the following activities: factory supervision above the working foreman level, sales (including driver salesmen), sales delivery (highway truck drivers and their helpers), advertising, credit, collection, installation and servicing of own products, clerical and routine office functions, executive, purchasing, finance, legal, personnel, etc.

(b) Central Administrative Office and Auxiliary Unit Employees.--For the 1954 Census, respondents were asked to report separately any central administrative offices or auxiliary units that were at a different location from the establishments served or at the same location as one of these establishments but not operated as an integral part thereof and administered or served two or more establishments. The functions of employees in central administrative offices include: general company policy determination, planning and management (i.e., company purchasing, accounting, general engineering, direction of company personnel matters, and legal and patent matters). Auxiliaries are storage facilities, garages, repair shops, purchasing offices, sales promotion offices, and research laboratories, serving the plants or central management of the company. Employment and payroll totals for the central administrative offices and auxiliaries are included in certain tables in the Area and Summary Volumes (see section 9e for additional discussion).

14. Manufacturing Employees--Average Employment

In the 1947 Census, the statistics "all employees, number" and "production workers, number" represented averages of reported employment of the mid-month pay period for the 12 months of the year. The 1954 Census report forms requested employment figures for only four selected pay periods (i.e.,

midmonth employment in March, May, August, and November) in all but seasonal industries.

This latter approach was initiated in the intercensal Annual Survey of Manufactures to simplify the schedule format and lighten the reporting burden of respondents, inasmuch as it was found that the average of these selected pay periods approximates very closely the average that would be obtained from the 12 monthly pay periods for almost all industries. A study of the 1947 Census data indicated that the difference between average employment based on the specified 4 pay periods and average employment derived from 12 monthly figures was less than one percent for 376 of the 452 manufacturing industries and less than 3 percent for 442 industries, or 98 percent of all industries. The remaining 10 industries showed a variation of 3 to 9 percent.

In the 1954 Census, the midmonth pay period of the middle month was used for the last three quarters of the year. For the first quarter of the year, however, the mid-March, rather than mid-February, pay period was selected in order to tie-in with the identical pay period for which employment data are reported to the Bureau of Old-Age and Survivors Insurance. This permits coordination of Census and BOASI establishment employment records, both for the purpose of a census "universe" control in census years, and in intercensal years for the tabulation of "County Business Patterns" data which are directly comparable with the Annual Survey of Manufactures estimates for industry groups, States and geographic divisions. Further analysis of the 1947 Census disclosed virtually no change in the 4-month employment average by selecting mid-March rather than mid-February as the representative pay period for the first quarter.

In the 1954 Census, therefore, the four selected pay periods mentioned above were used on all census report forms, except 15 covering 40 seasonal industries. A supplemental inquiry was included on the report form for such industries, requiring the midmonth total employment for each of the 12 months of the year. For this purpose, seasonal industries were defined as those in which one of the following conditions held in any one of the years 1947, 1950 or 1952:

(a) Average annual employment based on March, May, August and November differed by 2 percent or more from the average based on all 12 months of the year.

(b) The ratio of employment in the lowest of the 12 months to employment in the highest month fell below 75 percent.

15. Manufacturing Employees--Payrolls

This total includes the gross earnings paid in the calendar year 1954 to all employees on the payroll of operating manufacturing establishments. Respondents were told they could follow the definition of payrolls used for calculating the Federal withholding tax. It includes all forms of compensation such as salaries, wages, commissions, dismissal pay, all bonuses, vacation and sick leave pay, and compensation in kind, prior to such deductions as employees' Social Security contributions, withholding taxes, group insurance, union dues, and saving bonds. The total includes salaries of officers of these establishments, if a corporation; it excludes payments to the proprietor or partners. Also excluded are payments to members of armed forces and pensioners carried on the active payroll of manufacturing establishments.

The 1954 Census definition of payrolls, identical to that recommended to all Federal statistical agencies by the Bureau of the Budget, is also the same as the 1947 Census definition. It should be noted that this definition does not include employers' Social Security contributions, or other nonpayroll labor costs such as employees' pension plans, group insurance premiums, and workmen's compensation. Force-account construction worker wages are included in total payrolls even though such wages are a cost charge to the manufacturer's capital account rather than a current production cost. However, these wages represent an inconsequential fraction of total manufacturing payrolls, as most construction of new plants or additions to existing plants is performed on a contract basis, either by independent construction firms or separate construction subsidiaries of manufacturing concerns.

As in the case of employment figures, the payrolls of separate central administrative offices and auxiliary units of multiestablishment companies are not included in the totals for individual industries or industry groups but are shown in table 1 of each State report and selected other tables in the Area and Summary Volumes.

16. Production and Related Worker Man-Hours

This total consists of all plant man-hours of production and related workers as defined above. It represents all man-hours at the plant worked or paid for, including actual overtime hours (not straight-time equivalent hours). It excludes hours paid for vacations, holidays, or sick leave, when the employee was not at the plant. Where employees elected to work during the vacation period, only actual hours worked by such employees were reported.

The production worker man-hours total for an industry, as collected in the Census, provides a comprehensive measure of labor input, taking into account both the number of production workers and their actual hours of work.

As in the 1947 Census and subsequent Annual Surveys, 1954 man-hours data were requested by quarter for the calendar year, on the basis of 1947 Census pretests. These pretests indicated that quarterly data could be reported more readily than either monthly or annual data. The man-hours figures issued by the Census differ from those published monthly by the Bureau of Labor Statistics which cover all hours paid for, whether or not worked, and relate only to the payroll period ending nearest the middle of each month. The 1954 Census definition of man-hours (i.e., all man-hours at the plant, including "stand-by" hours paid for) is a clarification, without altering the desired concept, of the 1947 definition which simply called for all man-hours worked.

Man-hours were generally well reported except in the case of small establishments which, as in the 1947 Census, experienced some difficulty in distinguishing between production and other types of workers, and except for some industries like apparel where work is commonly performed on a piece rate basis. Where man-hours were not reported and it was not feasible to obtain the information by correspondence, the data were estimated. Because this estimating was largely confined to small establishments, there is no significant qualification to the validity of overall industry and geographic area totals for man-hours, except for sawmills and a few other industries characterized by small establishments or by other limitations in their record-keeping affecting the reporting of man-hour information. However, the man-hour figures for establishments with fewer than 10 employees, shown in the Size of Establishment chapter of the Summary Volume, should be interpreted with this factor in mind.

17. Cost of Materials, etc., Consumed

A summary inquiry on the 1954 Census report forms requested information on the cost of materials, supplies, semi-finished goods, fuels and electric energy, actually consumed or put into production during the year, whether purchased, withdrawn from inventories, or received from other establishments of the company, as well as the cost of contract work. "Cost" refers to direct charges actually paid or payable for items consumed or put into production during the year, after discounts, and including freight charges and other direct charges incurred by the establishment in acquiring these materials.

Under the general heading "Cost of materials, etc." separate figures were obtained for (a) the total delivered cost of all raw materials, semi-finished goods, parts, components, containers, scrap, and supplies consumed or put into production; (b) the amount paid for electric energy purchased; (c) the amount paid for all fuels consumed for heat, power, or the generation of electricity; and (d) the cost of work done by others on materials or parts furnished by the reporting manufacturing establishment (contract work). The cost of materials figure published for each industry does not include the separately reported cost of products bought and resold in the same condition; also, it excludes the cost of purchased services, such as advertising, insurance, telephone, and research; it excludes overhead costs,

such as depreciation charges, rent, interest, etc.; it excludes materials, machinery and equipment used in replacement or expansion of plant or capitalized repairs which are chargeable to fixed assets accounts.

Where the respondent's records did not show the actual amounts consumed or put into production during 1954, he was permitted to enter purchase figures provided purchases closely approximated consumption during the year. For minor materials and supplies, the substitution of purchase records was accepted regardless of the variation between purchases and consumption. If for any major material, however, the two measures differed significantly, the manufacturer was instructed to derive an estimated consumption figure by adding purchases (or receipts) to amounts on hand at the beginning of the year and subtracting amounts on hand at the end of the year. While it was not feasible to audit the resulting figures reported for materials and supplies consumed, enough checks of consistency were made so that it is believed that the aggregates reported are close approximations of actual consumption.

In the case of materials received from other plants of the same company or from a central materials depot (whether at the same or different physical location), the respondent was asked to approximate the commercial value of these materials, including freight and other direct handling charges. For some industries in which there was no satisfactory market counterpart of the transferred material, special instructions were necessary. The respondent was also asked, where possible, to check that such approximated costs exceeded the value of shipments reported by the company's plant producing and transferring the goods only by the addition of freight and other direct charges.

It should be noted that the cost of fuel consumed under (c) above (including anthracite and bituminous coal, natural and manufactured gas, fuel oil, liquefied petroleum gas, and other fuels) does not include fuel used as a material in the manufacturing process, for example, coal used in the production of coke. Such costs were included with other materials costs in category (a) above.

A summation of industry figures for cost of materials would result in large and unknown amounts of duplication in industry group totals, owing to the addition of costs reported by related industries engaged in successive fabrication stages in the production of finished manufactured products. For this reason, cost of materials figures are not shown at the industry group (3-digit) and major industry group (2-digit) levels. With some important exceptions (such as Blast Furnaces and Steel Mills, Radios and Related Products, and Motor Vehicles and Parts), this duplication is not significant within individual industries.

18. Individual Materials Consumed

In addition to the total cost of materials, fuels, etc., which every establishment was required to report, quantity and cost information was collected on the use of 433 specific materials. Consumption information was also collected for an additional 762 items as part of the product sections of the report forms. The latter group typically consisted of items which were produced and also consumed by the producing establishments or by other establishments in the same industry. For example, many chemical plants produced a basic chemical and then used it in further processes. Also in the steel industry, data on receipts and consumption of mill shapes were obtained as part of the inquiry calling for the production and shipments of these shapes.

Materials were covered in two ways. For 230 materials, every industry that consumed appreciable quantities of the material was canvassed so that the data would represent at least ninety percent of the total consumption by manufacturing industries. For the remaining 203 materials, information on consumption was obtained on a more limited basis, generally only from those industries in which the materials were an important part of total material costs. Of the 762 products for which consumption information was obtained, industries accounting for ninety percent or more of manufacturing consumption were covered for about 300 items.

Because American industry uses an enormous variety of materials, the number of materials for which "complete" coverage consumption data (90 percent or higher) were obtained had to be strictly limited. The selection of a particular material for such coverage was therefore based on the following criteria:

- (1) The importance of the material as measured by the total value of United States consumption of the material
- (2) The percentage of total consumption accounted for by manufacturing establishments
- (3) The availability of consumption information from manufacturers' records
- (4) In certain instances, other factors such as the strategic importance of the material or the availability of historical data on the use of the material.

The materials included on a limited coverage basis were chosen not only because they constituted important inputs for particular industries but, frequently, because they provided necessary classification-type information and other indirect measures. For example, an industry's production was of a heterogeneous character and materials consumed afforded a better measure of physical output than could be obtained from available production data.

Tabulated data on the materials consumed in an industry are usually shown in the report for that industry. In addition, for the 230 materials covered on a complete basis (see above), consumption by all industries and, frequently, by States is shown in the Summary Volume. The data on materials consumed relate generally to the quantity and cost of materials purchased from other companies or obtained from other plants of the same company. However, for selected materials which are also importantly produced for use within the same establishment, information was requested on such captive production in quantity terms only.

Some undercoverage exists in the statistics for most individual materials. This undercoverage results from the fact that:

- (1) Individual materials consumption information was obtained only from establishments using one of the Census of Manufactures standard forms. For the most part, therefore, plants with fewer than six employees are not represented in the statistics. A rough indication of the effect of short forms on the materials covered can be derived from an analysis of the size of establishment tables which appear in the industry reports in the Industry Volume and in a separate chapter of the Summary Volume.
- (2) Establishments consuming less than a specified amount of a material were not requested to report consumption of the material separately. For the majority of individual materials, the minimum amount was \$5,000.

The use of such cut-offs, as well as short forms, is not believed to have had a significant effect on the totals for most materials. However, for industries where a sizeable proportion of the activity is accounted for by small establishments or where a specified material is used in relatively small quantities, the above limitations may be of some consequence.

In the area of metal mill shapes and castings, the minimum amounts to be reported separately in the 1947 Census were 50 tons for carbon steel shapes, 25 tons for alloy steel and 10 tons for stainless steel, nonferrous mill shapes and castings. The reporting cut-off for each of these metals in 1954 was \$5,000. Because of the dominance of large consuming establishments in the totals for these materials, however, the effect of the difference in cut-offs between the two years is believed to be negligible.

19. Value of Shipments

The amounts under value of shipments both for industries and for individual products or classes of products are the received or receivable net selling values, f.o.b. plant, after discounts and allowances, and excluding freight charges and excise taxes.

However, where the products of an industry are customarily delivered by the manufacturing establishments (bakery products, fluid milk, soft drinks, for example) the value of shipments is based on the delivered price of the goods rather than the f.o.b. plant price. For the tobacco and other industries where excise taxes are important, such taxes are covered separately.

Under the general heading of shipments, manufacturers were asked to include all items, made by or for each establishment from materials owned by it, whether sold, transferred to other plants of the same company, or shipped on consignment. Also included were receipts for contract work and for such miscellaneous activities as sale of scrap and refuse, installation work by manufacturing plant employees, research and development work, and repair work. The net selling value of products made in one plant on a contract basis from materials owned by others was reported by the plant providing the materials. The value of products bought and resold without further processing (merchandising) was reported separately and is excluded from the value of shipments figures shown in all tables; the value and cost of resales are, however, shown separately in table 3 of the Industry Volume.

In the case of multi-unit companies, the manufacturer was requested to report the value of products transferred to other establishments of the same company (i.e., other manufacturing plants, separate sales branches, or retail stores) at "the nearest approximation to corresponding commercial values, f.o.b. plant, and not the cost of production."

The industry "value of shipments" is necessarily different from the value of shipments of the group of products regarded as "primary" to the industry. The value of shipments of primary products of an industry (Tables 5 and 6 of the Industry Volume) includes the value of such products reported by all producers, including those establishments in other industries which make these items as "secondary" products. However, that value does not include the value of secondary products of establishments classified in the industry, nor receipts of such establishments for contract work and other miscellaneous activities. The general use of shipments as the basis for valuing the output of manufacturing industries differs from the practice for all censuses except those for 1947 and 1929. The selection of shipments in recent censuses was made in order to facilitate direct reporting from records of sales, shipments, or billings. Value of shipments for 1954 and 1947 may, however, be directly compared with value of products for earlier years. In the first place, it is likely that in earlier censuses many manufacturers valued their output in terms of shipments even though value of production was requested. Secondly, the changes in the value of finished goods inventories for most industries were of minor importance and there was, therefore, little difference between production and shipments in 1954, 1947, and 1939 Censuses. The "value of production" was requested in the 1954 Census for a relatively few industries where such records are generally maintained in place of shipment figures and reporting of the latter would have involved undue difficulty for the respondent. These instances are noted in the tables and descriptive text for the industries involved.

20. Individual Products

For 1954, as for 1947, data were collected for almost all industries on the quantity and value of individual products shipped. In the 1954 Census, information was collected on the output of approximately 7,000 individual product items. The term "product" as used in the Census of Manufactures represents the finest level of detail for which output information was requested. Consequently, it is not necessarily synonymous with the term product as used in the marketing sense. For example, all grades of automotive gasoline were reported as a single item. On the other hand, cotton broad-woven goods were distributed into nearly 200 items.

The list of products for which separate information was collected in the 1954 Census was based on the product categories selected for the 1947 Census of Manufactures after extensive consultation with industry and government representatives. This 1947 Census list was reviewed in preparation for the 1954 Census

and modifications were made in many instances, although less extensively than in 1947. In readjusting the list of products, comparability with previous figures was given considerable weight. Comparable 1947 information is presented for most products, therefore, at some level of detail.

Typically, quantity and value of shipments information was collected for each product. In some cases quantity was not significant or could not be reported by manufacturers, largely because of the wide range of sizes, prices or different types of products included in the category. For these products, only value of shipments was collected. Shipments include both commercial shipments and transfers of products to other plants of the same company. For products for which a considerable portion of the total shipments is transferred to other plants of the same company, separate information on such interplant transfers was also collected. Moreover, for products which are used to a large degree within the same establishment as materials or components in the fabrication of other products, total production and often consumption of products produced in the same establishment were collected. Production data were also collected for products for which there are significant differences between total production and total shipments. Other measures of output of products, such as "value of work done" for products with long production cycles, were used as appropriate and feasible.

21. Classes of Products

For the purpose of summarizing the product information, the separate products were aggregated into "classes of products" which were in turn grouped into all "primary" products of each industry. The code structure used is a 7-digit number for the individual products, a 5-digit code for the class of product, and a 4-digit code for the total primary products in an industry.

The 7,000 product items in the 1954 Census were grouped into approximately 1,000 separate classes on the basis of general similarity of manufacturing processes, types of materials used, and the like. However, the grouping of products was affected by the economic significance of the class, and in some cases, dissimilar products were grouped because they were not sufficiently significant to warrant separate classes.

The product class was developed in order to provide an intermediate level of classification for output information. Because of the reduced number of separate items and the increased number of companies producing the class of products, additional tabulations of output information, e.g., product class by State (table 6B of the Industry Volume) are feasible more frequently than would be possible for individual products. The increased number of companies minimizes the problem of protection against disclosure of individual company information and the smaller number of items (product classes) reduces the cost of tabulation.

22. Duplication in Cost of Materials and Value of Products

The aggregate of the cost of materials and value of shipments figures for industry groups and for all manufacturing industries includes large amounts of duplication owing to the use of products of some industries as materials by others. With some important exceptions, such as Motor Vehicles and Parts, this duplication is not significant within individual industries but arises from the addition of statistics for related industries representing successive stages in the production of a finished manufactured product. Examples are the addition of flour mills to bakeries in the Food Group and the addition of pulp mills to paper mills in the Paper and Allied Products Group of industries. Estimates of the over-all extent of this duplication indicate that the value of manufactured products exclusive of such duplication--the value of finished manufactures--tends to approximate two-thirds of the total value of products reported in the Census of Manufactures. Because of the unknown and varying amounts of duplication contained in cost of materials and value of products, these figures are not shown for groups of industries or for geographic areas in this census and are also eliminated for approximately a dozen individual industries containing significant amounts of duplication.

Even where no significant amount of duplication is involved, value of shipments figures are deficient as measures of the relative economic importance of individual manufacturing industries or geographic areas, because of the wide variation in ratio of materials costs to labor and other processing costs, both among industries and within the same industry.

23. Value Added by Manufacture

This measure is derived in the 1954 Census (as it was in the 1947 Census and intervening annual surveys) by subtracting the cost of materials, supplies, containers, fuel, purchased electric energy, and contract work, from the value of shipments of manufacturing establishments. It avoids, therefore, the duplication in the value of shipments figure which results from the use of products of some establishments as materials by others. It is considered to be the best value measure available for comparing the relative economic importance of manufacturing among industries and geographic areas.

Value added by manufacture should not be confused with "national income originating in manufacturing," as presented in the national income estimates compiled by the Office of Business Economics, Department of Commerce. The latter measure is the sum of factor costs incurred by an industry in production. It excludes, in addition to cost of materials, such other costs as depreciation charges, State and local taxes (other than corporate income taxes), allowance for bad debts, and purchases of services from nonmanufacturing enterprises, such as contract costs involved in maintenance and repair, services of development and research firms, services of engineering and management consultants, advertising, telephone and telegraph expense, insurance, royalties, patent fees, etc. It is, therefore, a more "net" concept of value added than that used in the Census of Manufactures.

In part, the "national income originating" estimates are prepared from company rather than establishment data. This results in the inclusion of some part of the net value added (or a logical approximation of it) by nonmanufacturing establishments of companies classified as being primarily manufacturing; and conversely, in the exclusion of some part of the net value added by manufacturing establishments of companies classified as primarily nonmanufacturing. It is believed that for manufacturing as a whole the net effect increases income originating. (In fact, in the Petroleum and Coal Products major industry group, nonmanufacturing activities of manufacturing companies are so significant that this is the one major industry group in which O.B.E. "income originating" exceeds Census "value added by manufacture.") Many of the items that must be deducted from "value added" to arrive at an income originating figure can be reported on an establishment basis only with considerable difficulty, if at all.

Another distinction between the Census value added and O.B.E. income originating statistics arises from the treatment of net changes in inventories of work-in-process and finished goods. The census figure is based on shipments, and hence does not reflect net changes in these inventories during the year. The O.B.E. estimate makes allowance for inventory changes.

For industries in which intra-company transfers constitute a significant part of total cost of materials or value of shipments, the Census value added is subject to certain limitations arising from the assignment of values to the products transferred. To the extent that manufacturing companies assign to products shipped from one establishment of the company (classified in Industry A) to another (in Industry B) values that reflect only cost of production without adequate allowance for overhead and profit, the value added in Industry A will be understated whereas that for Industry B will be overstated. For related groups of such industries and for manufacturing as a whole, this imbalance cancels out, of course, and the aggregate value added is without distortion due to problems of transfer valuation.

In the calculation of value added for the 1954 Census and prior years, products bought and resold in the same condition (resales) are excluded from both the value of shipments and the cost of materials, etc. However, value added by manufacture including value added by resale and the net change in work-in-

process and finished product inventories is shown for 1954 in a special table in the Summary Volume. It is planned that this more comprehensive concept will be followed in future censuses and annual surveys of manufactures.

24. Inventories

The value of beginning-of-year and end-of-year inventories held by each manufacturing establishment, except for those in Printing and Publishing, was obtained in the 1954 Census. Based on the successful experience in the 1953 Annual Survey of Manufactures, separate inventory figures were requested for: (1) finished products; (2) work-in-process; and (3) materials, supplies, fuel, and other inventories. In the earlier Annual Survey years and in the 1947 Census, inventory data had been collected for only two major categories: (1) finished products and (2) work-in-process, materials, supplies, and other inventories.

Respondents were asked to report their inventories at approximate current costs if feasible; otherwise "at book values." Since different methods of inventory valuation are used (LIFO, FIFO, etc.) the meaning of the value of inventories aggregate for all establishments in an industry is not precise. The figures on change in inventory between the beginning and the end of the year are of considerable significance.

Establishments were asked to report total inventories and a distribution of inventories by materials, work-in-process, and finished goods. However, an item treated as a finished good by an establishment in one industry may be reported as a raw material by another establishment in a different industry. For example, the finished product inventories of a steel mill would be reported as raw materials by a stamping plant. Such differences are present in the inventory figures by stage of fabrication shown for individual industries, industry groups, and all manufacturing which are merely aggregates of figures reported by establishments in specified industries. It should be noted further that the total finished goods inventory for all manufacturing includes items that are not finished manufactured products.

For a few industries in the food group there are special problems in the handling of inventories by stage of fabrication. These are industries in which the products are usually stored under controlled conditions and the products are aged. Included among such types of products are stemmed and dried tobacco, cheese, and whiskey. It is not clear whether such products should be treated as finished goods inventories or as work-in-process while in storage. In all of these industries substantial finished goods inventories have been reported. These data have been summarized in the inventory tables in a consistent manner for all of the years included in this report. The Census Bureau is investigating this problem further.

The total end of 1954 inventory of \$40.3 billion reported in the Census of Manufactures by manufacturing establishments is lower than the total inventory of \$43.5 billion estimated for manufacturing companies by the Office of Business Economics for the same date. This difference is mainly attributable to the fact that the Census of Manufactures total includes only the inventories of manufacturing establishments while the O.B.E. inventory is a total for manufacturing firms. The sales branches alone, among the nonmanufacturing establishments of manufacturing companies, reported inventories of \$2.2 billion in the 1954 Census of Wholesale Trade.

25. Expenditures for Plant and Equipment

In the 1954 Census, manufacturers were asked to report expenditures made during the year for permanent additions and major alterations to their plants, as well as for machinery and equipment purchases, that were chargeable to fixed-asset accounts of manufacturing establishments and were of a type for which depreciation accounts are ordinarily maintained. Capital expenditures during 1954 were to be determined by the following computation: additions completed during the year, plus construction in progress at the end of the year, minus construction in progress at the beginning of the year. Expenditures for machinery and equipment were to include those made for re-

placement purposes, as well as for additions to plant capacity. Excluded from such expenditure totals are costs of maintenance and repairs charged as current operating expenses. Also excluded are expenditures for land and expenditures made by owners of plants and equipment leased to manufacturers.

In addition to total capital expenditures, respondents were requested to indicate the following subtotals: (a) new structures and additions to plant (including major alterations and capitalized repairs and improvements); (b) new machinery and new equipment (including capitalized repairs and improvements); and (c) expenditures for used plant and used equipment acquired from others (including the United States Government). This three-fold breakdown of capital expenditures, also used in the 1949-1953 Annual Surveys, represents a contraction of the detail obtained in the 1947 Census when item (a) above was subdivided into buildings and other construction, and item (b) into production machinery and other machinery. The publication of statistics on capital expenditures is generally confined to new plant and equipment (items (a) and (b) above).

In the 1947 Census and the 1949 and 1950 Annual Surveys, data on capital expenditures related only to manufacturing establishments that were in operation at some time during the report year. They did not include expenditures incurred during the year for constructing and equipping new plants not yet in operation, or for renovating idle establishments. To close this statistical gap, such supplemental capital expenditures data were obtained in the 1951-1953 Annual Surveys, and again in the 1954 Census, by means of a special company report form. The 1954 report form (Form MC-D3) collected capital expenditures detail for each manufacturing plant under construction or renovation from the approximately 1,700 largest manufacturing companies. In addition, reports were obtained from about 600 smaller companies, selected as a representative sample of all other manufacturing concerns. Based on the 1951-1953 Annual Survey experience, the relative contribution from such smaller companies to this "under construction or renovation" segment of expenditures is ordinarily less than one-tenth of the estimated total.

The capital expenditures figures in the Industry and Area Statistics Volumes do not cover idle plants and plants under construction that were not put into operation within the year 1954. Data on this type of capital outlay are shown by industry group and by State in Volume I, Summary Statistics.

The census figures on capital expenditures differ from those estimates published from the joint Office of Business Economics-Securities and Exchange Commission sample survey. In addition to the sampling variation present in the latter data, a major source of difference is to be found in the scope of the two series. Census data relate only to manufacturing establishments, whereas the OBE-SEC series on expenditures covers all establishments, manufacturing and nonmanufacturing, of companies classified as manufacturing concerns. This factor is particularly important in the petroleum industry, where company expenditures for developing new wells and new distribution facilities are ordinarily much larger than their capital expenditures at refineries. The OBE-SEC series excludes from the totals for manufacturing industries firms which operate manufacturing establishments but are primarily nonmanufacturing companies. Both series, it should be noted, exclude expenditures for plant and equipment at establishments owned by the Federal Government but operated under lease or contract by private companies.

26. Fuels, Electric Energy, and Water

Detailed statistics on use of fuels by manufacturing establishments for power and heat were collected in the 1954 Census of Manufactures. Separate figures were collected for coal, coke, fuel oil, gas, and other fuels. For each of the fuels with the exception of "other" fuels, both quantity and cost were collected. For "other" fuels, only cost was collected. The fuels reported in this inquiry exclude those used by manufacturing establishments as a raw material. For example, coal consumed in the manufacture of coke is not included in the fuel statistics.

However, data on such consumption are included in the materials consumed tables in the Industry and Summary Volumes.

Data were also collected on the use of electric energy in manufacturing. Separate figures were collected for the quantity and cost of electric energy purchased, the quantity of electric energy generated, and the quantity and value of electric energy sold.

Statistics on the industrial use of water were collected in 1954 for the first time in a Census of Manufactures. Comparable water use information had been obtained as part of the 1953 Annual Survey of Manufactures to meet a growing need for data on this important natural resource. (See Section 9f.) The water use statistics are shown by industry, State and water use region in Volume I, Summary Statistics.

27. Horsepower of Equipment

For the first time since 1939, statistics on horsepower rating of power equipment were collected. Such information had been requested prior to 1939 in periodic censuses as far back as 1869.

For prime movers, separate statistics in terms of total horsepower rating were collected for movers driving generators and movers not driving generators. Similarly, the horsepower rating of electric motors (excluding fractional horsepower motors) was obtained. In order to derive a measure of aggregate horsepower, the figures for electric motors were divided between motors driven by purchased energy and motors driven by energy generated within the same establishment. For establishments both generating and purchasing electric energy, the electric motor horsepower was split on the basis of the ratio of quantity of electric energy purchased to quantity generated in the establishment. The aggregate horsepower was then derived by summing the prime mover horsepower figures with the horsepower of electric motors driven by purchased energy. In this manner, duplication of horsepower between prime movers driving generators and motors driven by generated electric energy was eliminated. The problem of estimating the separation of the electric motor horsepower was limited inasmuch as the great majority of manufacturing establishments do not generate electric energy.

Horsepower of stand-by equipment as well as equipment in operation at the end of the year was requested. Included were all movers and motors in mobile as well as stationary equipment. Only motors driving highway-type motor vehicles were excluded.

28. Selected Metalworking Operations

For all industries in S.I.C. Major Groups 34 to 37 inclusive, and Group 19, and selected 4-digit industries in Group 33, the 1954 Census of Manufactures included a special inquiry on "Selected metalworking operations" to provide a measurement of the metalworking facilities in manufacturing. The following metalworking operations were included in this inquiry: foundry (except die casting); die casting (nonferrous metal only); forging-presses, hammers, or upsetters; electroplating; galvanizing and other hot-dip coating; heat treating or annealing of metals for production purposes; automatic screw machine department; machine shop; tool and die room, if separate from machine shop; pattern shop (foundry patterns only-metal, wood, etc.); plate or structural fabrication; and stamping, blanking, forming or drawing. The number of establishments performing these operations, classified by size of the specific operation, is shown by industry in the Industry Volume and in Chapter XII of the Summary Volume and by geographic division and State in the Summary Volume. The size distribution is based on the number of production workers usually employed in the operation. In addition, the actual number of production employees is given for the total of operations usually employing 20 or more workers. A column showing total estimated production workers for all establishments engaged in each of the metalworking operations is also included in the Summary Volume chapter.

Information on these metalworking operations was obtained for practically all industries where such operations are con-

sequential. In many of these industries, however, small establishments reported on a short form that did not include the inquiry on metalworking operations. Also, a few larger establishments that filed standard forms did not report their metalworking operations. This has resulted in an understatement of the number of establishments maintaining specific operations, primarily in the smallest size class, and to a much lesser degree an understatement of the total number of production workers in the operations. An approximation of the understatement in terms both of number of establishments and total employment is provided in the appropriate tables. The employment coverage is over 90 percent for nearly all industries and close to 100 percent for the larger metal consuming industries. The coverage is highest in industries which have few establishments with less than 6 employees. This type of operations information is useful in conjunction with the specific materials consumed data and with general relationships between materials cost and value of shipments in studying the extent of integration in specific industries. Moreover, this information measures approximately the extent to which these operations, which for the most part define individual industries, are conducted by establishments classified in other industries in the metal products area.

29. Selected Equipment Data

Detailed data on equipment were obtained from textile mills (S.I.C. Major Group 22, except 225, 2274, 228 and 229) and oil-seed crushing mills (S.I.C. Group 288) and are shown in the sections on those industries in the Industry Volume. The textile inquiries provided an inventory of selected items of equipment used in fiber preparation, spinning, weaving, and finishing; the oil mill inquiries secured information on various types of presses and the quantities of crushed seed and oil produced.

Information on storage capacity was collected from dairies (S.I.C. Group 202), grain mills (Industries 2041-43), ice plants (Industry 2097), tobacco plants (Major Group 21), and petroleum refineries (Industry 2911). These data which were obtained primarily to supplement similar inquiries included in the Census of Business are also shown in the Industry Volume.

30. Distribution of Manufacturers' Shipments

Information on the volume of goods shipped to various classes of customers (wholesalers, retailers, industrial users, etc.) was collected for the 28 industries or commodity groups listed below:

Industry or Commodity Group	Related S.I.C. Industry
Confectionery	2071-72
Soft drinks	2081
Hosiery	2251, 2252
Carpets and rugs	2271, 2273
Linoleum	2274
Printing and publishing	2731
Drugs and medicines	2831, 33, 34
Paints and paint products	2851, 52, 53
Essential oils, perfumes and cosmetics	2893
Petroleum products	2911, 2992
Shoes and slippers, other than rubber	3141, 42
Heating and cooking apparatus (including electric)	3432, 3439, 3621
Service-industry and household machines	3581, 3589
Refrigeration and air conditioning equipment	3585
Storage batteries	3691
Sporting and athletic goods	3949

This inquiry was originally planned to be similar in scope to the "Distribution of Manufacturers' Sales" inquiry in the 1939 Census of Manufactures. The 1939 distribution item covered 402 of 446 industries, and the information requested was identical for all the industries covered (with slight modifications for

certain textile industries). During the clearance of the 1954 Census forms, however, the Advisory Council on Federal Reports indicated the desirability of limiting the inquiry to industries which typically maintain records of shipments by class of customer and have a diversified distribution pattern and, furthermore, of adapting the inquiry in accordance with the customer channels of the particular industry. It was suggested by members of the Council, and later confirmed by a check of the Census reports, that the 1939 inquiry was poorly reported because of the lack of standardization among records maintained by manufacturers. Extensive conferences with industry representatives were held and, as a result, the inquiry was included only on the forms for the industries listed above. The details of the 1954 inquiries adopted differed from industry to industry, although, in general, distinctions were made between (a) interplant transfers, (b) shipments to retailers, (c) shipments to wholesalers, (d) shipments to Government, and (e) export shipments. The inquiries in some instances were confined to shipments of specific commodities, and in others covered the entire shipments of the industry, including both its "primary" and "secondary" products.

31. Plant Specialization Data

In response to needs expressed by data users, a program of plant specialization statistics was developed for the 1954 Census of Manufactures. These data provide a more exact measurement of the relationship between the output of an industry and the statistics on employment and payrolls, cost of materials, etc., reported by the same industry. The plant specialization data (in table 8 of the Industry Volume and Chapter XI of the Summary Volume) importantly supplement the information presented in the industry tables 5A and 5B.

Specialization for an establishment is computed in two ways. The first computation is in terms of the ratio of all the primary products of the establishment to its total of primary plus secondary products. The second in terms of the ratio of the largest single product class of the establishment to its total of primary plus secondary products. Receipts for contract and commission work as well as other miscellaneous receipts are not included in the plant specialization computation. Establishments are then grouped according to their degrees of specialization at the two levels. The statistics presented in table 8 group establishments in four specialization ranges for most industries: 90 percent or more, 75-89 percent, 50-74 percent, and less than 50 percent. For each of these ranges at the two levels (all primary products and the product class), statistics are shown on employment and payrolls, value added, cost of materials, and value of shipments.

Not all industries or all product classes are included in table 8 in each of the industry chapters. Industries having a high degree of primary product specialization (90 percent or more—see table 3 of the industry chapters) and including only one product class are omitted since the statistics for the specialized establishments would be approximately the same as those for the entire industry. In addition, selected industries having more than one product class as well as particular specialization ranges within a product class may have been omitted in order to avoid disclosing individual company figures.

Certain product classes are primary to more than one industry. The industry classification of establishments primarily producing such classes of products is determined on the basis of the kind of operation performed in the establishment, e.g., making the product from purchased materials or from materials produced at the same location. In the plant specialization data (table 8), product classes primary to two or more industries are shown in each of the respective industries. For each industry, the specialization data by industry and product class include only those establishments producing the class of product in the manner defined (e.g. lubricating oils from purchased materials).

Table 8 of the Industry Volume permits analysis of an industry in terms of the differences introduced by variation among establishments in the degree of specialization in the products of the industry or subgroup thereof. For example, where the ratios

of various statistics tend to be different for establishments specializing to different degrees in the products of the industry or in different product classes, such ratios for the industry as a whole would be importantly affected by shifts in product mix. It should be noted that for those industries in which a production process results in the manufacture of byproducts or other similarly highly correlated products which are separate product classes in the Census, the degree of specialization in each of the product classes tends to be somewhat lower.

Differences in the degree of integration of production processes within establishments are often more important than the element of product mix. No comprehensive industry by industry measure of variations in production processes among establishments is available in the 1954 Census tables. A partial measure of differences arising from this factor can be derived for some industries through the metalworking operations or other equipment data. For some other industries, data on the production and use of products within the same establishment may be used as an approximate measure (see also discussion in Section 6, Industry Classification of Establishment, concerning differences in process integration, captive production, etc.)

Statistics for establishments highly specialized in the products of their industry classification are also presented in table 3 of the Industry Volume for industries with a primary product specialization ratio of less than 90 percent. This permits a direct comparison of the statistics for the specialized establishments with the totals for the industry. However, the proportion of the total industry represented by the specialized establishments should be considered in the analytical use of the statistics for such establishments.

32. Imputation of Data

Each "key" census total called for on the standard forms had its counterpart in the various short forms. The short forms, however, did not require the detailed distribution of such totals (see Section 9, The Census Report Forms). It was necessary, therefore, to impute figures for these missing detail items in order to publish "universe" census totals of manufacturing activity.

Imputation of missing items was made feasible by use of the Census Bureau's high-speed electronic computer, Univac. Imputation factors (or ratios) were developed for each detailed item, taking into account a plant's industry classification, regional location, and employment size. These factors were applied by Univac against the reported total figures. For example, it was thus possible to estimate, for each establishment reporting on a short form, the number of production workers from the reported total employment figure; production worker wages were imputed from reported total payroll, and, in turn, production worker man-hours were developed from the derived production worker wages. Similarly, figures for the three-fold classification of inventories were developed from the reported total inventories. This imputation system was also applied to standard forms on which detailed items were not reported and where the total figures were too small to warrant "follow-up" correspondence on such omitted data.

Estimates of the incidence of imputation of detailed figures for short forms (as well as omitted detail for standard forms) in the 1954 Census indicate that, on the average, such imputation represents less than 5 percent of the published census totals.

For industries characterized by establishments of some size, the percentage of imputation of general measures such as employment and payrolls, cost of materials, inventories, expenditures, and the like is under 5 percent; for the industries in which

small establishments account for a significant portion of the total, the percent may go as high as 10 to 20. Of the various statistics, man-hours worked tended to have a higher degree of imputation than the other items due to certain difficulties in reporting those data by small and medium-size establishments in industries such as sawmills.

The major exceptions to the imputation procedure for missing data were the detailed products and materials, metalworking operations and equipment inquiries. The value of products and the cost of materials, parts, supplies and containers for establishments not reporting the detailed inquiries were treated as "unspecified" materials or products in the appropriate tables. For metalworking operations and equipment, the statistics were based on establishments reporting data, with appropriate measures of coverage shown in the tables.

33. Confidentiality of Data for Individual Companies

The Bureau of the Census is prohibited by law from publishing any statistics that disclose information reported by individual companies. In the 1954 Census, as in 1947, preference was given to geographic regions and divisions over individual States in applying disclosure rules; similarly, States took precedence over standard metropolitan areas, while such areas were given preference over counties, and counties over cities. In tables showing industry detail, major industry group (2-digit) totals were given preference over industry group (3-digit) totals which, in turn, had precedence over individual (4-digit) industries. Similarly, in product tables, 4-digit product groupings took precedence over 5-digit product classes; the latter were given precedence over individual 7-digit products.

Such order-of-precedence was used because (1) it was considered preferable to show regional data for an industry, even at the cost of withholding data for another (usually the least important) State in a region, rather than to show all publishable data for the individual States and group the disclosure States throughout the United States in an "all other" category as was done in the 1939 and earlier censuses; and (2) by giving preference to industry group statistics over individual industries within each State, the extent to which individual States can be compared within the S.I.C. industry classification framework is greatly increased.

For each producing State not shown separately in Table 2 of the Industry Volume, a footnote gives the number of establishments and either an employment range or the actual employment figure. The employment is shown in a range if the State had less than 1,000 employees, if it represented the total for only one or two companies, or if the exact figure would permit deriving (by subtraction) the number of employees in other States represented by only one or two companies. In addition, figures for States with less than 100 employees are shown only in the footnote together with the number of establishments and employment in a range.

In the Area Volume, figures are not shown for a county or for an industry within a State, metropolitan area, or principal industrial county if the publication of such statistics would disclose information for individual companies. In table 3 of that Volume, however, the number of establishments is shown for every county and the number of employees for most counties represented by three or more companies. Moreover, all counties having manufacturing establishments are included in table 7, showing for each county the distribution by employment size of establishments in each major industry group.

For industries with few establishments or considerable geographic concentration, it has frequently been necessary to use geographic regions broader than the traditional nine census divisions, in order to show all plants by some geographic group-

ing. For this purpose the following combinations of Census divisions have been used:

NORTHEAST	SOUTH
New England	South Atlantic
Middle Atlantic	East South Central
	West South Central
NORTH CENTRAL	WEST
East North Central	Mountain
West North Central	Pacific

34. Indexes of Physical Volume of Production

The Bureau of the Census, in collaboration with the Federal Reserve Board and the Bureau of Labor Statistics, is calculating indexes of the physical volume of manufacturing production for 1954 relative to 1947, primarily from the product and industry statistics published in Volume II, Industry Statistics, of the 1954 Census of Manufactures. In addition to the index for all manufacturing, separate indexes are published for over half the industries (representing more than three-quarters of the value added by manufacture) and for most of the major industry groups. The present calculations represent a continuation of the indexes for 1947 prepared jointly by the Census Bureau and the Federal Reserve Board and those for the period 1899-1939 constructed by

the National Bureau of Economic Research mainly from Census of Manufactures data. The indexes are published in the form of a separate report.

35. Abbreviations

The following abbreviations and symbols occur frequently in tables and footnotes:

...	zero
xxx	Not applicable
NA	Not available
n.e.c.	Not elsewhere classified
lin.	linear
equiv.	equivalent
hp	horsepower
kwh	kilowatt-hours
D	Withheld to avoid disclosing figures for individual companies
S.I.C.	Standard Industrial Classification

Other abbreviations, such as lb., gal., yd., doz., and bbl., are used in the customary sense. Where the term "tons" only is used, it refers to short tons of 2,000 pounds; where the figures are expressed in tons of 2,240 pounds, the unit of measure is specified as "long tons" or "gross tons."

Chapter I.—General Summary

GENERAL SUMMARY

Table 1A.—MANUFACTURING EMPLOYMENT IN THE UNITED STATES: 1954 AND EARLIER YEARS
(For explanation of column captions see Introduction)

Year ¹	Total manufacturing employment		Employment at operating manufacturing establishments		Employment at administrative and auxiliary units	
	(Number)	Payroll (\$1,000)	Number	Payroll (\$1,000)	Number	Payroll (\$1,000)
1954.....	16,125,550	65,976,667	15,651,294	62,993,321	474,256	2,983,346
1953 ²	17,093,004	68,590,424	16,693,076	66,492,872	399,928	2,097,552
1952 ²	16,061,041	61,140,549	15,732,722	59,598,225	³ 328,319	³ 1,542,324
1951 ²	15,637,957	56,283,787	15,309,638	54,741,463	328,319	1,542,324
1950 ²	14,769,931	47,892,894	14,467,149	46,642,786	302,782	1,250,108
1949 ²	13,880,050	42,752,032	13,566,949	41,482,008	313,101	1,270,024

¹Employment data for administrative offices and auxiliaries are not available for the years prior to 1949. See Table 1B for employment data for earlier years.

²The employment figures for operating manufacturing establishments for 1949-1953 are estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for these years. The employment figures for administrative and auxiliary units were compiled chiefly from Bureau of Old-Age and Survivors Insurance records and are not strictly comparable with the figures for these units that were collected by the Bureau of the Census for the year 1954.

³The 1951 data are shown for 1952 since auxiliary and administrative unit data were not compiled for 1952.

GENERAL SUMMARY

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Table 1B.—GENERAL STATISTICS FOR OPERATING MANUFACTURING ESTABLISHMENTS IN THE UNITED STATES: 1954 AND EARLIER YEARS

(For explanation of column captions see Introduction.)

Year ¹	Estab- lish- ments (Number)	Proprie- tors and firm members (Number)	All employees ²		Production workers			Value added by manu- facture ⁴ (\$1,000)	Capital expendi- tures, new (\$1,000)	Horsepower of prime movers and electric motors ⁵ (1,000 HP)	Index of physical produc- tion 1939=100
			Number ³	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
Factories, excluding hand and neighborhood industries:											
1954.....	286,817	197,850	15,651,924	62,993,321	12,373,030	24,341,239	44,595,457	116,912,526	7,818,155	108,362	⁶ 221
1953 ⁷	285,000		16,693,076	66,492,872	13,500,934	27,065,569	48,979,102	121,659,136	7,541,606		(NA)
1952 ⁸	267,000		15,732,722	59,598,225	12,706,032	25,617,613	43,763,640	109,162,079	7,525,923		(NA)
1951 ⁷	262,000	(NA)	15,309,638	54,741,463	12,508,914	25,263,764	40,654,832	102,085,814	7,205,059		(NA)
1950 ⁷	260,000		14,467,149	46,642,786	11,778,803	23,716,536	34,600,025	89,749,765	5,110,262	(NA)	(NA)
1949 ⁷	(NA)		13,566,949	41,482,008	11,016,301	21,769,728	30,253,971	75,366,527	5,066,941		(NA)
1947.....	240,807	188,948	14,293,963	39,695,558	11,917,884	24,316,465	30,243,971	74,290,475	5,998,099		174
1939 ⁸	173,802	⁹ 123,655	¹⁰ 9,527,306	¹⁰ 12,706,102	7,808,205		8,997,515	24,487,304		49,893	100
1937.....	166,794	99,268	9,786,402	12,829,749	8,569,231		10,112,883	25,173,539			101
1935.....	167,916	81,521	8,262,295	9,564,754	7,203,794		7,311,329	18,552,553		(NA)	81
1933.....	139,325	72,267	¹¹ 6,557,925	¹¹ 6,237,800	5,787,611		4,940,146	14,007,540			61
1931.....	171,450	(NA)	(NA)	(NA)	6,163,144		6,688,541	18,600,532			70
1929.....	206,663	132,686	9,659,742	14,284,282	8,369,705		10,884,919	30,591,435		41,122	98
1927.....	187,629	132,151	9,072,052	13,123,135	7,848,070	(NA)	10,099,465	26,325,394		(NA)	85
1925.....	183,877	132,971	9,142,417	12,957,707	7,871,409		9,979,649	25,667,624		34,359	80
1923.....	192,096	147,958	9,474,658	12,996,460	8,194,170		10,148,624	24,569,487		(NA)	75
1921.....	192,059	172,291	7,557,364	9,870,199	6,475,474		7,451,299	17,252,775		(NA)	52
1919.....	270,231	249,865	9,836,801	12,426,902	8,464,916		9,664,009	23,841,624		28,398	60
1914.....	268,436	258,560	7,514,186	5,015,977	6,602,287		3,782,322	9,385,622	(NA)	21,565	50
1909.....	264,810	272,421	7,012,066	4,105,470	6,261,736		3,205,213	8,160,075		18,063	42
1904.....	213,444	225,115	5,674,957	2,990,937	5,181,660		2,440,851	6,019,171		13,032	33
1899.....	204,754	(NA)	4,850,019	2,258,654	4,501,919		1,892,574	4,646,981		9,811	27
Factories and hand and neighborhood industries:											
1899.....	509,490		5,478,301	2,595,566	5,097,562		2,206,547	5,474,892		10,989	
1889.....	353,864		4,586,494	2,209,058	4,129,355		1,820,854	4,102,301		¹² 5,939	
1879.....	253,852	(NA)			2,732,595	(NA)	947,954	1,972,756		¹² 3,411	(NA)
1869.....	252,148		(NA)	(NA)	2,053,996		620,467	1,395,119		¹² 2,346	
1859.....	140,433				1,311,246		378,879	854,257		(NA)	
1849.....	123,025				957,059		236,755	463,983		(NA)	

NA Not available.

¹The 1954 figures include data for establishments engaged in the processing and distribution of fluid milk, Industry Group 202, Dairy Products. These establishments were not included in the figures for the Annual Survey years 1949-1953 or earlier Census years. In addition, the 1954 Census and Annual Survey years include data for Logging Camps and Contractors, Industry 2411, which were not included within the scope of the 1947 and earlier Censuses. See footnotes to Table 2A for comparable 1954 and 1947 totals. There were also a number of changes in the definition of manufacturing industries during earlier Census years that affect the comparability of the historical series. Among the more important of these were: figures for 1935 and later years exclude data for "Railroad repair shops" and "Manufactured gas" which were included in 1899-1933 figures; the minimum size of establishment included for 1954-1947 was one employee, for 1939-1921 manufacturing establishments reporting value of shipments of \$5,000 or more were within scope whereas for 1919 and earlier years the cutoff was \$500. (This change in procedure has not appreciably affected the comparability of the historical data except for the figures on number of establishments.)

²The figures for 1939-1954 include data for employees at manufacturing establishments who were engaged in distribution and in construction work. The extent to which data for such employees were included in the figures for earlier years is not known.

³The 1949 thru 1954 "Average number of employees" is based on reported employment totals for the payroll periods nearest the 15th of March, May, August, and November except for seasonal industries in 1954 when a 12 month average was used. For 1947, the number of "All employees" represents the average of 12 monthly figures; for 1939 and earlier years, it represents the sum of the average number of production workers for the year and the number of nonproduction workers reported for one payroll period (usually in October).

⁴Value of products shipped less cost of materials, supplies, fuel, electric energy, and contract work. For 1849-1933, cost of contract work was not subtracted from value of products in calculating value added by manufacture.

⁵Driven by purchased energy.

⁶Estimated figure based on Federal Reserve Board data.

⁷Data for 1949 thru 1953 are estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volume for this period.

⁸The figures for 1939, but not for earlier years, have been revised on the basis of retabulation of the returns to exclude data for establishments classified as manufacturing in 1939 and prior years but classified as nonmanufacturing beginning with 1947. Value added by manufacture for 1939, prior to revision and on a basis comparable with 1937 and previous years, was \$24.7 billion.

⁹Not revised to exclude data for establishments classified as manufacturing in 1939 and prior years but classified as nonmanufacturing beginning with 1947.

¹⁰The 1939 figures for "all employees" were revised on the basis of estimates rather than by retabulation of the 1939 reports. The estimates were made in the following manner: for number of employees, by multiplying the retabulated figure for number of production workers by the ratio of all employees to production workers computed from the unrevised 1939 statistics; for salaries and wages, by multiplying the retabulated wage figure by the ratio for salaries and wages also derived from the unrevised 1939 statistics.

¹¹Not including data for salaried officers of corporations and their salaries and, therefore, not strictly comparable with figures for other years.

¹²Does not include data for electric motors.

GENERAL SUMMARY

Table 2A.—GENERAL STATISTICS FOR OPERATING MANUFACTURING ESTABLISHMENTS

(For explanation of column captions see Introduction.)

		1-54									
Industry group and industry		Primary products specialization ratio ¹	Coverage ratio ²	Establishments ³ (Number)	Proprietors and firm members ⁴ (Number)	All employees		Production workers			Value added by manufacture, unadjusted ⁴ (\$1,000)
						Number ³	Payroll (\$1,000)	Number ³	Man-hours (1,000)	Wages (\$1,000)	
All industries, total.....				286,817	197,850	15,651,294	62,993,321	12,373,030	24,341,239	44,595,457	116,912,526
Food and kindred products.....				42,374	30,738	1,647,204	6,201,500	1,138,239	2,316,661	3,759,071	13,400,218
Tobacco manufactures.....				627	376	94,863	259,639	87,073	162,988	219,736	988,001
Textile mill products.....				8,070	3,060	1,037,440	3,032,770	947,502	1,821,075	2,526,564	4,748,586
Apparel and related products.....				31,372	23,044	1,190,064	3,201,795	1,069,867	1,898,999	2,521,135	5,147,371
Lumber and wood products.....				41,484	41,987	645,936	1,933,523	581,920	1,106,955	1,604,859	3,188,409
Furniture and fixtures.....				10,273	7,323	340,694	1,197,376	286,649	571,294	892,891	1,966,410
Pulp, paper and products.....				5,004	1,360	530,210	2,217,420	435,727	919,440	1,656,720	4,580,944
Printing and publishing.....				32,531	24,329	804,386	3,625,133	499,666	961,465	2,115,344	6,264,558
Chemicals and products.....		(NA)	(NA)	11,075	3,523	739,389	3,407,199	501,272	1,016,053	2,005,627	9,443,629
Petroleum and coal products.....				1,381	292	215,843	1,101,814	163,811	322,947	778,408	2,582,613
Rubber products.....				1,406	523	246,526	1,059,337	196,238	377,414	775,499	1,903,702
Leather and leather products.....				4,845	2,565	356,578	1,027,314	321,161	586,857	833,694	1,637,417
Stone, clay, and glass products.....				11,162	7,843	491,814	1,938,085	412,031	827,012	1,496,029	3,821,659
Primary metal products.....				5,838	2,402	1,117,059	5,097,466	938,511	1,812,027	3,985,548	9,372,910
Fabricated metal products.....				22,516	13,908	1,019,406	4,397,337	821,172	1,652,366	3,174,186	7,596,275
Machinery, except electrical.....				25,601	16,558	1,541,675	7,190,563	1,171,323	2,369,610	4,979,972	12,338,923
Electrical machinery.....				5,758	1,936	959,126	3,950,094	722,443	1,422,339	2,645,588	7,403,134
Transportation equipment.....				5,348	2,976	1,704,572	8,295,773	1,327,078	2,714,603	6,003,250	13,925,983
Instruments and related products.....				3,142	1,635	272,586	1,200,322	195,597	391,403	750,459	2,128,706
Miscellaneous manufactures ⁹				17,010	11,472	695,917	2,658,182	555,746	1,089,229	1,861,873	4,473,050
Food and kindred products.....		(NA)	(NA)	42,374	30,738	1,647,204	6,201,500	1,138,239	2,316,661	3,759,071	13,400,218
Meat products.....		97	99	4,992	4,180	311,366	1,234,617	243,135	504,344	893,665	1,930,974
Meat packing plants ¹¹		98	87	2,367	2,021	220,194	942,970	167,815	354,779	687,878	1,394,486
Prepared meats ¹²		83	1028	1,316	990	44,297	186,939	33,767	70,034	124,327	330,312
Poultry dressing.....		96	97	1,309	1,169	46,173	104,706	41,551	79,530	36,459	206,175
Dairy products.....		99	99	11,503	8,682	283,431	1,086,291	153,196	332,986	507,163	2,256,738
Creamery butter.....		74	77	1,262	431	21,019	65,601	15,060	32,756	42,920	136,953
Natural cheese.....		83	74	1,419	1,051	13,914	42,363	11,343	25,672	32,326	88,716
Concentrated milk.....		82	68	359	66	13,310	50,513	10,900	24,583	39,338	170,566
Ice cream and ices.....		93	70	1,587	1,072	36,488	134,171	20,982	42,422	64,193	327,898
Special dairy products.....		90	56	187	61	7,300	26,515	5,347	11,701	20,050	56,965
Fluid milk.....		82	94	1,695	1,873	14,086	48,085	9,074	1,111	27,692	98,940
Fluid milk and other products.....		82	94	4,994	4,128	177,311	718,960	79,987	176,922	280,142	1,376,698
Canned and frozen foods.....		95	97	3,513	2,051	199,238	573,057	175,366	332,414	442,398	1,301,195
Canned seafood.....		96	94	239	134	15,131	37,062	14,125	20,995	31,147	70,387
Cured fish.....		97	91	90	99	1,726	5,709	1,425	2,803	3,686	10,512
Canned fruits and vegetables.....		90	94	1,758	909	119,836	354,746	105,613	206,076	276,063	830,019
Dehydrated fruits and vegetables.....		95	97	148	92	7,011	22,026	6,102	11,678	16,477	55,176
Pickles and sauces.....		80	75	717	493	21,895	67,084	18,230	35,777	47,504	140,925
Packaged seafood.....		94	95	295	245	12,200	27,190	11,232	18,779	21,549	45,657
Frozen fruits and vegetables.....		88	84	266	79	21,436	59,238	18,638	36,104	45,879	148,517
Grain mill products.....		99	90	3,352	2,257	109,944	434,850	79,383	173,331	285,775	1,217,055
Flour and meal.....		94	84	803	555	28,969	119,844	21,447	4,919	93,813	315,143
Prepared animal feeds.....		95	90	2,292	1,606	59,890	225,199	41,290	91,220	138,520	584,135
Cereal breakfast foods.....		77	80	46	6	11,534	51,002	9,149	18,211	38,062	172,283
Rice milling.....		99	100	80	28	3,364	13,367	3,129	7,145	8,397	42,359
Flour mixes.....		71	45	131	62	5,585	25,446	4,366	8,834	16,982	103,134
Bakery products.....		99	99	6,414	5,745	291,100	1,124,426	178,778	362,381	537,592	1,977,188
Bread and related products.....		98	99	6,103	5,540	246,337	973,546	143,077	293,871	477,972	1,568,933
Biscuit and crackers.....		97	93	311	205	44,763	150,880	35,700	68,500	109,619	408,254
Sugar.....		100	100	137	21	30,166	117,834	25,083	53,204	92,903	250,759
Raw cane sugar.....		1096	97	49	21	3,078	8,949	2,719	7,231	7,307	15,431
Cane-sugar refining.....		10100	100	23	...	16,068	66,431	12,932	26,061	50,350	138,971
Beet sugar.....		1099	100	65	...	11,019	42,453	9,431	19,911	35,245	96,357
Candy and related products.....		97	95	1,490	1,078	80,425	254,083	65,917	129,262	181,104	596,211
Confectionery products.....		95	96	1,434	1,074	66,709	201,706	55,220	107,952	143,850	422,314
Chocolate and cocoa products.....		98	89	28	3	8,465	33,133	6,677	13,503	23,219	81,745
Chewing gum.....		1095	98	28	1	5,161	20,149	4,011	7,806	14,034	92,150
Beverages.....		99	100	5,384	3,334	202,795	867,600	118,755	231,890	460,438	2,237,428
Bottled soft drinks.....		98	99	4,643	3,166	91,616	319,200	41,575	80,584	101,519	635,045
Beer and ale.....		100	100	301	13	81,346	420,546	53,698	105,288	261,497	1,100,741
Malt.....		100	100	45	5	2,603	14,677	2,036	4,096	10,167	48,149
Wines and brandy.....		1000	96	262	135	5,724	23,258	4,328	8,393	13,749	96,749
Distilled liquor, except brandy.....		99	100	133	15	21,505	81,900	17,117	32,892	65,504	356,741

See footnotes at end of table.

GENERAL SUMMARY

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BY INDUSTRY GROUPS AND INDUSTRIES: 1924 AND 1947

For definitions of industries, see Appendix A—Industry Descriptions)

1947—Continued		1947											Year	
Value of shipments	Capital expenditures, new ⁵	Primary production specialization ratio ¹	Coverage ratio ²	Establishments (Number)	Pro-prietors and firm members (Number)	All employees		Production workers			Value added by manufacture, unadjusted ⁴	Value of shipments (\$1,000)		Capital expenditures, new ⁵ (\$1,000)
						Number ³	Payroll (\$1,000)	Number ³	Man-hours (1,000)	Wages (\$1,000)				
(\$1,000)	(\$1,000)													
1,18,155	789,050			7240,807	7188,948	714,293,963	739,695,558	711,917,884	724,316,465	730,243,971	774,290,475		75,998,099	
	28,018			(8)	(8)	(8)	(8)	(8)	(8)	(8)	(8)		(8)	
	15,714			1,086	874	111,782	205,838	103,289	198,323	175,318	641,356		35,645	
	76,552			8,157	4,068	1,232,293	2,832,706	1,146,293	2,306,636	2,447,857	5,322,899		367,510	
				30,963	28,430	1,081,670	2,525,183	973,029	1,811,120	2,014,758	4,439,597		83,945	
	217,361			(8)	(8)	(8)	(8)	(8)	(8)	(8)	(8)		(8)	
	61,945			7,551	6,112	316,273	806,948	277,909	583,572	641,673	1,346,277		77,441	
	532,723			4,100	1,289	454,075	1,294,535	391,715	857,344	1,018,339	2,913,197		406,779	
	236,897			28,978	22,685	715,120	2,276,262	437,880	888,554	1,317,573	4,248,773		226,368	
(6)	926,613	(NA)	(NA)	10,019	34	626,418	1,898,472	464,144	1,236,012	5,317,001	(6)		804,958	
	753,124			1,411	398	207,618	725,983	165,405	354,089	543,362	1,990,944		399,754	
	128,431			872	366	258,237	781,373	213,823	423,667	613,111	1,299,441		109,783	
	28,053			5,308	3,496	383,264	873,746	348,615	677,001	1,533,028	1,533,028		31,301	
	300,647			11,643	10,323	461,037	1,206,903	404,930	838,320	2,298,521	2,298,521		285,066	
	131,045			5,364	2,893	1,158,158	3,601,791	1,012,008	2,053,663	5,733,028	5,733,028		592,177	
	432,491			16,777	12,348	973,174	2,833,684	823,012	1,694,666	2,032,032	4,920,304		304,822	
	713,808			17,910	13,159	1,552,135	4,830,125	1,248,921	2,591,220	3,610,392	7,833,970		517,589	
	340,677			3,970	1,727	796,357	2,258,657	634,661	1,277,994	1,636,714	3,860,235		244,606	
	124,626			3,703	2,534	1,174,498	3,694,932	981,103	1,961,311	2,920,813	5,841,722		354,111	
	94,008			2,605	1,661	244,872	706,055	194,303	389,940	502,168	1,140,499		56,000	
	116,636			14,148	11,849	463,390	1,205,212	396,002	811,288	917,572	2,066,259		156,611	
(6)	1,050	(NA)	(NA)	(8)	(8)	(8)	(8)	(8)	(8)	(8)	(8)		(8)	
(6)	1,362	(NA)	(NA)	3,971	3,249	1,443	782,182	220,702	489,213	584,703	1,279,742	(6)	85,036	
1,415,007	15,617			2,154	2,058	208,438	623,058	167,135	376,007	468,962	977,144	8,969,876	11,511	
1,557,012	1,763			1,264	835	44,485	12,111	34,491	74,584	6,156	234,758	1,600,687	5,904	
(6)	163,123			553	356	21,570	36,222	19,076	38,622	29,085	67,840	478,993		
126,14	13,566													
551,159	9,317													
127,433	25,733	(8)	(8)	(8)		(8)	(8)	(8)	(8)	(8)	(8)	(8)	(8)	
295,337	5,776													
352,767	7,496													
4,233,113	91,414													
(6)	77,100	(NA)	(NA)	3,825	2,784	201,109	413,041	180,651	351,658	334,284	914,184	(6)		
238,382	2,083			91	96	254	225	18,929	30,147	31,755	96,807	226,519		
35,536	646			127	117	2,431	5,111	2,143	3,789	3,763	9,948	31,077	430	
2,228,947	4,016			2,265	1,545	135,851	283,859	121,921	243,454	230,883	608,768	1,640,754		
192,200	3,421			96	136	3,976	8,145	3,662	7,318	6,834	18,155	1,079		
481,507	7,579			742	610	21,335	47,177	18,226	38,004	15,111	121,129	357,860	11,445	
164,625	2,813	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)		
417,140	10,638	(6)	(6)	291	151	17,363	31,542	15,770	28,946	25,833	59,377	155,076		
(6)	65,348	(NA)	(NA)	4,206	3,531	113,217	311,736	86,063	199,048	216,229	1,001,692	(6)		
1,858,388	15,240			1,243	1,017	38,557	119,533	30,821	74,691	86,000	410,774	2,526,646		
2,702,267	36,812			2,688	2,363	55,152	142,562	40,115	92,368	93,124	313,049	2,112,241		
345,343	4,403			68	64	25	11,276	30,689	9,496	19,540	130,188	4,666		
266,861	5,332			100	88	59	4,072	9,999	3,267	7,788	6,700	43,432	4,741	
254,136	5,353			81	17	123	3,120	8,953	2,364	4,661	5,245	24,249	78,442	
(6)	89,630			99	99	7,122	278,784	763,999	187,045	402,804	428,417	1,362,985	(6)	
3,067,017	75,725			99	6,796	232,726	654,776	149,519	324,607	350,056	1,098,012	2,403,589		
75,113	13,904			93	326	1	46,058	109,223	37,526	78,197	264,973	540,222		
(6)	19,123			100	181	62	35,423	91,291	30,749	69,226	75,529	233,869	(8)	
64,713	2,659			100	82	4,635	8,550	4,022	10,217	6,597	17,709	60,135		
864,113	10,553			100	25	17,376	47,172	15,093	33,074	38,974	98,112	818,430		
291,248	5,910			100	74	13,412	35,569	11,634	11,634	29,958	118,048	262,872	12,520	
(6)	21,272	(NA)	(NA)	1,754	1,444	91,710	14,558	78,063	158,210	155,666	587,065	(6)		
992,611	13,399			1,686	1,113	75,165	167,886	64,883	130,694	123,046	413,852	944,925		
432,842	3,636			100	31	9,605	19,192	5,472	11,583	13,446	98,276	349,907	6,013	
1,113,117	4,235			(D)	37	14	6,940	19,192	5,472	11,583	13,446	148,286	4,595	
(6)	176,602	(NA)	(NA)	6,755	5,605	202,574	194,305	138,515	301,080	375,921	1,849,145	(6)		
1,113,117	4,235			5,612	5,172	82,534	194,305	41,214	90,882	83,291	420,711	1,196,196		
1,113,117	114,534			440	37	82,534	292,111	63,668	142,001	210,228	807,177	1,316,085		
201,113	3,257			53	10	5,511	9,550	2,069	4,466	6,896	53,885	256,230		
(6)	2,216			418	49	1,611	4,611	11,717	11,717	95,015	95,015	(6)		
711,313				226	49	30,422	80,498	52,014	61,825	472,357	870,235			

GENERAL SUMMARY

Table 2A.—GENERAL STATISTICS FOR OPERATING MANUFACTURING ESTABLISHMENTS

(For explanation of column captions see Introduction.)

Code	Industry group and industry	1954									Value added by manufacture, unadjusted ⁴ (\$1,000)
		Primary products specialization ratio ¹	Coverage ratio ²	Establishments (Number)	Proprietors and firm members (Number)	All employees		Production workers			
						Number ³	Payroll (\$1,000)	Number ³	Man-hours (1,000)	Wages (\$1,000)	
	Food and kindred products—Continued										
200	Miscellaneous food preparations.....	95	89	5,589	3,390	138,735	507,745	98,623	196,845	303,029	1,632,667
201	Leavening compounds.....	89	90	43	9	2,685	12,246	1,987	3,840	8,696	45,350
202	Shortening and cooking oils.....	85	89	102	27	9,398	42,414	6,755	14,016	27,571	175,988
203	Margarine.....	90	62	33	2	2,626	10,463	1,835	3,681	6,314	42,467
204	Corn wet milling.....	91	96	58	24	13,565	60,030	10,584	21,008	43,172	176,696
205	Flavorings.....	91	87	558	231	10,593	45,060	6,543	12,402	20,308	219,445
206	Manufactured ice.....	100	97	1,963	1,203	20,854	61,811	12,880	27,975	35,593	115,469
207	Macaroni and spaghetti.....	98	95	233	183	7,058	24,278	5,276	10,216	14,465	50,951
208	Food preparations, n.e.c.....	94	86	2,599	1,711	71,952	251,440	52,761	103,702	146,907	806,298
209	Tobacco manufactures.....	(NA)	(NA)	627	376	94,863	259,689	87,073	162,988	219,736	988,001
2111	Cigarettes.....	99	100	19	...	29,987	103,779	27,694	53,643	91,067	677,252
2121	Cigars.....	99	100	410	323	38,494	89,259	36,076	65,720	78,455	165,312
2131	Chewing and smoking tobacco.....	96	89	65	33	7,535	23,372	6,444	11,729	17,229	80,057
2141	Tobacco stemming and redrying.....	100	99	133	20	18,846	43,278	16,857	31,894	32,983	65,378
22	Textile mill products.....	(NA)	(NA)	8,070	3,060	1,037,440	3,032,490	947,502	1,821,075	2,526,564	4,748,586
221	Woolen and worsted manufactures.....	97	93	644	126	91,535	305,766	82,090	162,494	250,221	452,906
2211	Scouring and combing plants.....	83	60	74	6	7,013	24,300	6,363	12,616	20,134	35,084
2212	Yarn mills, wool, except carpet.....	93	85	171	37	17,840	51,730	16,511	31,150	44,085	78,971
2213	Woolen and worsted fabrics.....	92	95	343	71	62,466	214,246	55,702	111,650	174,696	315,706
2216	Finishing wool textiles.....	(10)	(10)	56	12	4,215	15,489	3,513	7,076	11,304	23,143
222	Yarn and thread mills.....	95	93	591	99	111,024	267,620	104,016	189,094	231,616	415,492
2222	Yarn throwing mills.....	93	79	137	33	11,840	32,046	10,849	21,327	26,790	53,964
2223	Thread mills.....	88	94	97	28	13,908	38,281	12,221	22,807	29,267	62,694
2224	Yarn mills, cotton system ¹⁴	95	92	357	38	85,275	197,292	80,944	144,959	175,558	298,833
223	Broad-woven fabrics.....	95	88	1,060	184	386,188	1,055,884	363,666	704,516	937,125	1,550,272
2233	Cotton broad-woven fabrics.....	94	84	582	68	296,193	783,011	280,546	537,531	702,649	1,127,507
2234	Synthetic broad-woven fabrics.....	37	90	478	116	89,994	272,872	83,120	166,984	234,476	422,765
2241	Narrow fabric mills.....	96	94	513	222	25,676	79,063	22,862	44,962	61,456	121,547
225	Knitting mills.....	(NA)	(NA)	3,045	1,608	221,364	597,319	201,977	371,029	488,095	938,138
2251	Full-fashioned hosiery mills.....	1090	1090	789	409	60,150	178,454	55,023	101,925	151,619	266,993
2252	Seamless hosiery mills.....	96	93	609	306	63,350	135,481	59,656	105,905	117,455	202,477
2253	Knit outerwear mills.....	93	73	1,083	722	46,403	139,182	41,345	75,955	104,490	231,702
2254	Knit underwear mills.....	88	39	149	41	31,262	77,501	28,248	51,204	63,095	110,591
2255	Knit glove mills.....	86	20	29	10	2,025	4,871	1,855	3,258	3,966	6,192
2256	Knit fabric mills.....	94	91	340	100	16,812	57,878	14,680	30,560	44,621	113,122
2259	Knitting mills, n.e.c.....	62	75	46	20	1,359	3,950	1,167	2,218	2,846	7,059
2261	Finishing textiles, except wool.....	86	41	725	183	79,308	292,324	68,485	142,839	228,262	464,165
227	Carpets and rugs.....	95	98	327	165	51,194	185,340	43,756	86,096	145,202	360,856
2271	Wool carpets and rugs.....	1090	1095	98	27	30,076	111,009	25,336	48,852	86,199	191,409
2273	Carpets and rugs, except wool.....	95	83	213	138	11,479	30,735	10,178	19,862	23,085	67,110
2274	Hard-surface floor coverings.....	85	97	16	...	9,638	43,596	8,242	17,382	35,918	102,337
228	Hats (except cloth and millinery).....	98	98	201	89	12,988	40,897	11,239	20,411	32,169	61,886
2281	Fur-felt hats and hat bodies.....	92	93	91	41	8,180	27,258	7,028	12,248	21,317	39,160
2282	Wool-felt hats and hat bodies.....	82	96	32	19	1,750	4,951	1,552	2,809	3,862	7,250
2283	Straw hats.....	87	75	48	16	2,294	6,262	1,992	4,103	5,252	11,573
2284	Hatter's fur.....	95	100	30	13	762	2,426	666	1,250	1,736	3,902
229	Miscellaneous textile goods.....	93	90	964	384	58,159	208,274	49,407	99,630	152,413	383,320
2291	Felt goods, n.e.c.....	90	92	72	23	5,987	23,376	5,182	10,767	18,083	41,656
2292	Loose goods.....	99	94	138	67	7,442	26,117	6,568	12,521	20,492	37,734
2293	Padding and upholstery filling.....	91	90	200	101	9,111	33,031	7,777	16,031	24,489	61,499
2294	Processed textile waste.....	96	93	203	79	5,768	17,570	4,856	10,142	12,717	30,723
2295	Coated fabric, except rubberized.....	86	82	106	22	8,547	41,699	6,576	14,711	27,386	80,294
2296	Cordage and twine.....	90	89	137	46	12,327	37,374	10,709	20,568	28,128	77,298
2299	Textile goods, n.e.c.....	88	81	108	46	8,975	29,106	7,736	14,888	21,116	54,115
23	Apparel and related products.....	(NA)	(NA)	31,372	23,044	1,190,064	3,201,795	1,069,867	1,898,999	2,521,135	5,147,371
231	Men's and boys' suits and coats.....	91	96	1,426	921	121,686	382,480	109,135	191,935	307,160	548,168
2311	Men's and boys' suits and coats.....	91	96	1,310	851	119,001	374,795	106,720	187,579	301,062	536,880
2312	Suit and coat findings.....	98	95	116	70	2,684	7,685	2,414	4,356	6,097	11,288
232	Men's and boys' furnishings.....	94	81	3,901	2,434	285,594	638,732	263,003	469,927	522,918	1,008,357
2321	Men's dress shirts and nightwear.....	90	85	971	411	108,304	236,726	100,262	181,083	196,683	372,941
2322	Men's and boys' underwear.....	88	28	82	29	9,385	18,923	8,827	15,325	16,289	29,952
2323	Men's and boys' neckwear.....	98	92	403	321	9,483	27,797	8,051	13,789	19,056	48,237
2325	Men's and boys' cloth hats.....	97	87	415	366	8,079	21,457	7,451	14,011	17,977	33,033
2326	Hat and cap materials.....	99	94	63	28	936	2,941	796	1,424	2,145	4,579
2327	Separate trousers.....	89	74	798	608	51,652	118,688	48,315	86,421	99,562	181,309
2328	Men's shirts.....	97	35	52	20	6,992	11,468	6,789	11,425	10,632	16,652
2329	Men's and boys' clothing, n.e.c.....	79	78	1,117	651	90,759	200,730	82,510	146,446	160,573	321,655

See footnotes at end of table.

GENERAL SUMMARY

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BY INDUSTRY GROUPS AND INDUSTRIES: 1954 AND 1947—Continued

For definitions of industries, see Appendix A—Industry Descriptions)

1954—Continued		1947												Code
Value of shipments	Capital expenditures, new ⁵	Primary products specialization ratio ¹	Coverage ratio ²	Establishments	Proprietors and firm members	All employees		Production workers			Value added by manufacture, unadjusted ⁴	Value of shipments	Capital expenditures, new ⁵	
						Number ³	Payroll	Number ³	Man-hours	Wages				
(\$1,000)	(\$1,000)			(Number)	(Number)		(\$1,000)		(1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	
(⁶)	85,487	(NA)	(NA)	6,693	4,531	151,790	384,418	108,568	236,808	241,547	1,199,122	(⁶)	91,115	209
71,185	1,604	(D)	(D)	48	14	3,066	8,944	2,364	4,902	6,804	46,494	72,295	1,230	2091
935,338	10,971	82	96	100	53	8,003	24,550	5,931	12,267	16,298	162,146	884,713	7,216	2092
192,343	1,478	81	73	27	...	2,567	8,337	1,806	4,012	5,279	43,750	214,598	1,114	2093
458,442	16,391	88	96	55	17	12,324	41,114	10,158	23,032	32,688	127,143	459,978	20,090	2094
446,056	6,642	93	89	606	322	11,726	37,149	7,242	14,626	17,720	158,333	313,573	7,626	2095
143,280	7,761	100	98	3,432	2,244	46,462	103,038	29,048	70,741	63,026	226,584	273,415	20,345	2097
149,656	2,469	1098	99	226	217	8,043	18,763	6,628	14,171	13,134	42,049	112,094	5,057	2098
3,255,967	38,168	92	80	2,199	1,664	59,599	142,522	45,391	93,057	86,598	392,623	1,600,903	28,437	2099
(⁶)	28,018	(NA)	(NA)	1,086	874	111,782	205,838	103,289	198,323	175,318	641,356	(⁶)	35,645	21
1,640,950	20,362	96	100	28	...	27,674	63,204	25,553	49,196	54,986	368,417	1,131,891	16,546	2111
339,452	2,884	99	100	822	789	47,068	76,344	44,512	84,008	68,402	143,145	311,401	4,449	2121
161,739	1,205	98	86	73	32	11,139	22,676	9,725	19,630	17,616	57,571	140,142	2,519	2131
1,043,213	3,566	100	98	163	53	25,901	43,614	23,499	45,489	34,314	72,223	957,807	12,131	2141
(⁶)	225,914	(NA)	(NA)	8,157	4,068	1,232,293	2,832,706	1,146,293	2,306,636	2,447,857	5,322,899	(⁶)	367,510	22
(⁶)	18,715	(NA)	(NA)	810	262	179,740	454,685	166,792	336,038	394,025	786,346	(⁶)	50,009	221
94,168	2,391	(NA)	(NA)	56	19	8,412	24,105	7,757	17,202	20,572	36,920	75,557	3,218	2211
251,614	3,302	90	81	200	79	33,178	75,380	31,463	61,857	66,443	127,808	336,956	6,613	2212
890,281	11,714	90	97	495	134	132,348	338,928	122,432	245,468	293,962	599,534	1,355,209	39,249	2213
32,788	1,307	(10)	(10)	59	30	5,802	16,272	5,140	11,511	13,048	22,084	28,889	929	2216
(⁶)	30,256	(NA)	(NA)	685	195	150,909	300,554	143,587	279,797	270,177	560,103	(⁶)	36,647	222
99,227	3,211	(NA)	(NA)	122	37	14,866	28,401	13,800	26,871	24,323	45,970	64,173	4,659	2222
183,746	8,543	85	(NA)	89	40	14,652	33,240	13,126	26,494	26,930	67,372	154,269	4,208	2223
1,030,627	18,501	(NA)	(NA)	474	118	121,391	238,913	116,661	226,432	218,924	446,761	1,162,607	27,780	2224
(⁶)	68,195	(NA)	(NA)	1,082	277	427,844	937,818	407,462	832,518	850,056	1,937,020	(⁶)	121,653	223
2,789,621	55,200	(NA)	(NA)	575	50	330,196	705,746	316,288	637,863	645,065	1,448,972	2,912,651	78,772	2233
1,142,629	12,995	85	(NA)	507	227	97,648	232,072	91,174	194,655	204,991	488,048	1,002,923	42,881	2234
250,162	4,802	95	98	480	277	28,080	65,011	25,295	50,586	52,494	110,571	215,194	5,670	2241
(⁶)	39,982	(NA)	(NA)	3,121	2,106	229,303	490,370	211,796	408,304	411,854	850,963	(⁶)	81,765	225
(⁶)	7,698	1090	1090	738	371	70,034	178,062	65,148	125,719	156,320	319,369	(⁶)	38,588	2251
429,251	12,986	96	91	618	418	64,913	105,711	61,443	114,618	91,939	163,899	327,007	17,122	2252
544,129	9,853	91	82	1,199	1,094	34,543	80,674	30,383	57,755	59,590	145,370	330,474	5,727	2253
256,290	2,982	87	70	172	52	40,579	80,520	37,546	74,111	67,990	134,399	295,411	6,853	2254
11,787	(13)	91	34	44	22	4,798	8,509	4,555	8,666	7,522	13,446	24,318	651	2255
377,383	6,214	93	88	306	113	13,460	34,681	11,849	25,667	26,755	70,202	197,454	12,731	2256
15,805	(13)	98	89	44	36	976	2,213	872	1,768	1,738	4,278	10,587	93	2259
998,144	21,900	(NA)	(NA)	641	272	77,985	218,933	69,035	148,266	176,094	359,270	531,400	29,668	2261
(⁶)	23,916	(NA)	(NA)	295	200	57,079	157,507	50,768	107,052	131,008	330,580	(⁶)	21,490	227
(⁶)	12,605	1090	95	95	51	40,096	111,558	35,560	74,203	92,656	217,046	(⁶)	11,796	2271
175,010	4,957	84	86	182	148	7,055	14,378	6,444	12,827	11,556	30,986	55,559	986	2273
181,582	6,352	91	100	18	1	9,928	31,571	8,764	20,022	26,796	82,548	173,255	8,708	2274
(⁶)	850	(NA)	(NA)	270	136	21,388	55,082	18,824	35,423	43,285	91,900	(⁶)	3,446	228
70,605	558	94	97	136	74	13,034	36,433	11,495	21,322	28,554	61,474	131,123	2,211	2281
13,559	(13)	76	97	48	25	4,427	9,317	3,927	7,217	7,487	13,798	26,135	721	2282
22,470	(13)	83	74	40	15	2,438	5,387	2,057	4,156	4,113	8,610	18,250	151	2283
10,114	(13)	(D)	(D)	46	22	1,489	3,945	1,345	2,728	3,131	8,018	23,823	363	2284
(⁶)	17,296	(NA)	(NA)	773	343	59,965	152,746	52,734	108,652	118,864	296,146	(⁶)	17,162	229
92,931	1,623	95	97	46	4	4,737	14,177	4,167	8,777	11,109	24,881	59,764	1,258	2291
59,795	1,941	94	97	96	68	8,580	21,346	7,856	15,403	17,745	44,872	68,663	1,931	2292
148,828	3,485	96	92	139	64	8,306	21,466	7,431	15,512	17,119	44,765	110,352	1,883	2293
85,023	1,513	94	94	179	98	5,805	12,894	5,149	10,982	9,822	22,612	57,255	1,046	2294
212,310	4,117	84	82	105	37	8,588	27,925	6,869	15,028	19,692	52,491	162,597	3,997	2295
159,948	2,614	87	87	149	52	16,366	37,143	14,482	29,025	29,190	73,795	170,897	3,863	2298
121,603	2,000	87	76	59	20	7,583	17,795	6,780	13,925	14,187	32,730	65,109	3,184	2299
(⁶)	76,552	(NA)	(NA)	30,963	28,430	1,081,670	2,525,183	973,029	1,811,120	2,014,758	4,439,597	(⁶)	83,945	23
(⁶)	3,561	92	97	1,970	1,655	151,116	406,304	136,862	267,334	339,418	676,947	(⁶)	10,961	231
1,140,731	3,466	92	97	1,814	1,526	147,099	397,151	133,181	260,434	332,007	660,206	1,412,782	10,747	2311
27,991	(13)	99	99	156	129	4,017	9,153	3,681	6,900	7,411	16,741	39,272	214	2312
(⁶)	16,684	(NA)	(NA)	4,028	3,254	253,020	455,438	234,106	431,237	373,941	801,633	(⁶)	17,866	232
893,980	6,370	94	87	1,064	681	94,182	163,751	88,052	163,002	137,487	292,426	438,563	7,786	2321
74,324	1,168	95	21	100	54	7,269	11,330	6,929	12,326	9,847	20,348	29,405	396	2322
100,036	(13)	97	91	413	374	10,744	25,367	9,246	16,942	18,485	50,708	62,980	495	2323
58,287	263	96	82	313	361	5,541	12,379	5,063	9,897	10,455	20,685	16,850	256	2325
9,669	28	97	99	70	58	1,111	3,002	943	1,790	2,100	5,620	6,709	70	2326
397,685	2,776	86	70	976	962	47,279	91,400	44,006	81,297	75,620	159,439	185,819	3,401	2327
38,300	(13)	77	67	85	16	12,061	16,609	11,169	20,429	13,858	33,212	62,166	633	2328
792,886	5,473	82	76	1,007	748	74,833	131,600	68,698	125,554	106,089	219,195	334,435	4,829	2329

GENERAL SUMMARY

Table 2A.—GENERAL STATISTICS FOR OPERATING MANUFACTURING ESTABLISHMENTS

For explanation of column captions see Introduction.

Code	Industry group and industry	Primary products specialization ratio ¹	Coverage ratio ²	Establishments (Number)	Producers and firms (Number)	All employees		Production workers			Value added by manufacture, 1947 ⁴
						Number ³	Payroll (\$1,000)	Numbers	Man-hours (1,000)	Wages (\$1,000)	
	Apparel and related products—Con.										
2331	Women's and misses' outerwear.....	93	92	10,298	7,400	362,896	1,046,12	311,742	161,260	824,534	1,686,067
2331	Blouses.....	93	25	1,245	1,025	42,980	99,818	67,901	82,201	82,201	165,352
2333	Dresses, unit price.....	95	95	4,114	1,117	143,278	418,577	111,527	111,514	334,819	661,292
2334	Dresses, dress price.....	94	96	892	640	54,507	127,276	44,442	90,092	100,137	105,670
2337	Women's suits, coats, and shirts.....	94	93	3,204	2,235	96,022	326,933	111,410	141,473	252,312	529,623
2338	Women's neckwear and scarfs.....	95	75	133	107	1,745	6,189	1,457	1,434	3,561	6,676
2339	Women's outerwear, n.e.c.....	92	44	710	471	25,361	67,324	22,637	42,147	51,503	111,116
234	Women's and children's underwear.....	96	83	1,843	1,020	112,234	284,814	100,609	179,036	219,040	411,250
2341	Women's and children's underwear.....	95	85	1,352	836	73,427	176,305	66,111	111,702	140,361	271,838
2342	Corsets and allied garments.....	96	95	491	184	38,807	108,509	33,724	60,333	78,977	214,870
2351	Hilinery.....	93	92	871	471	20,235	65,50	11,227	33,577	53,667	111,111
236	Children's outerwear.....	94	83	1,983	1,517	77,538	196,303	70,086	111,111	155,804	311,111
2361	Children's dresses.....	95	93	764	630	32,525	78,244	29,410	51,457	61,892	111,111
2363	Children's coats.....	91	81	407	11	14,399	44,980	12,849	22,692	35,311	72,601
236	Children's outerwear, n.e.c.....	93	62	812	572	30,613	73,079	11,111	41,111	58,311	121,863
237	Fur goods.....	95	100	1,972	1,669	9,983	42,111	7,994	11,111	33,111	54,111
238	Miscellaneous apparel.....	94	96	1,804	1,238	64,333	163,381	51,111	100,723	125,111	266,605
2381	Knit dress gloves.....	94	72	110	74	4,537	10,374	1,127	7,131	8,266	11,111
2382	Knit dress gloves.....	95	93	130	11	1,111	19,335	484	16,536	16,631	11,111
2383	Knit dress gloves.....	96	60	47	34	934	2,425	1,111	1,111	1,768	11,111
2384	Robes and dressing gowns.....	95	4	328	1	10,957	27,039	1,043	16,891	21,093	11,111
2385	Waterproof outergarments.....	93	81	294	1	12,872	34,702	11,360	20,167	27,117	11,111
2385	Waterproof outergarments, n.e.c.....	95	80	153	1	5,361	15,730	1,111	8,106	11,111	11,111
2385	Belts.....	94	94	503	1	12,571	35,403	1,111	19,639	25,111	11,111
2385	Knit dress gloves.....	92	92	100	54	3,513	7,792	1,111	5,179	5,797	11,111
2385	Knit dress gloves.....	91	91	139	1	3,501	10,111	1,111	5,670	7,489	15,582
239	Knit dress gloves, n.e.c.....	94	77	7,274	4,111	114,560	381,111	116,371	215,490	278,111	626,928
2391	Knit dress gloves.....	94	89	716	620	13,988	36,899	12,350	22,976	27,304	11,111
2392	Knit dress gloves.....	91	100	1,213	1	36,182	97,105	1,111	1,111	71,111	11,111
2393	Knit dress gloves.....	94	85	268	1	12,109	35,120	1,111	18,748	24,311	11,111
2394	Knit dress gloves.....	96	86	1,119	1	13,540	40,180	10,111	20,498	25,917	11,111
2395	Tucking, pleating, and stitching.....	91	91	491	1	6,453	17,602	6,021	10,773	14,828	11,111
2396	Trimming and finishing.....	93	83	836	1	17,754	55,623	15,045	1,111	40,558	11,111
2397	Knit dress gloves.....	91	91	601	1	5,715	18,739	1,111	9,969	14,772	11,111
2398	Knit dress gloves, n.e.c.....	96	96	806	1	10,803	26,820	10,041	16,409	22,171	11,111
2399	Fabricated textile products, n.e.c.....	97	77	1,104	1	18,006	52,167	15,220	1,111	37,314	11,111
24	Lumber and wood products.....	(NA)	(NA)	41,484	41,484	645,936	1,933,523	511,920	1,106,955	1,604,859	1,111,111
2411	Logging camps and contractors.....	91	89	12,865	13,946	75,510	210,625	61,171	115,575	182,295	11,111
242	Lumber and basic products.....	96	81	11,417	22,034	341,350	962,339	314,111	592,946	827,536	1,111,111
2421	Sawmills and planing mills.....	97	81	19,778	21,470	321,199	906,471	311,070	558,428	781,700	1,502,111
2421	Veneer mills.....	93	93	261	1	12,825	35,453	1,111	1,111	28,401	11,111
2421	Shingle mills.....	90	175	2,532	1	2,532	7,111	1,339	3,223	7,111	15,451
2421	Composite stock mills.....	95	95	205	178	3,368	6,521	3,111	5,575	5,111	10,843
2421	Wood-chip mills.....	96	96	1	1	1,424	4,150	1,111	1,111	1,347	11,111
2421	Knit dress gloves.....	91	91	3,344	1	119,416	211,111	10,111	1,111	351,221	11,111
2421	Knit dress gloves.....	91	91	3,348	1	68,069	258,198	1,111	1,111	188,156	11,111
2421	Knit dress gloves.....	96	96	255	64	39,201	152,301	1,111	1,111	133,111	11,111
2421	Knit dress gloves.....	91	91	231	1	11,547	45,905	1,111	1,111	1,111	11,111
2421	Knit dress gloves.....	94	94	1,513	1	52,307	137,111	1,111	1,111	113,111	11,111
2421	Knit dress gloves.....	93	93	1,293	1	1,293	3,111	1,111	1,111	1,111	5,329
2421	Knit dress gloves.....	91	91	1,081	1	1,081	1,111	1,111	1,111	1,111	11,111
2421	Knit dress gloves.....	99	99	1,23	1	1,23	350	1,111	1,111	10,507	11,111
2421	Knit dress gloves.....	92	92	57,351	1	57,351	1,512	1,111	1,111	130,111	1,111,111
2421	Knit dress gloves.....	99	99	12,411	1	12,411	36,162	1,111	1,111	28,020	1,111,111
2421	Knit dress gloves.....	91	91	51	1	1,463	5,640	1,111	1,111	4,190	1,111,111
2421	Knit dress gloves.....	91	91	343	1	5,214	1,351	1,111	1,111	12,111	1,111,111
2421	Knit dress gloves.....	91	91	2,103	1	2,103	1,111	1,111	1,111	1,438	1,111,111
2421	Knit dress gloves.....	(NA)	(NA)	1,111	1	1,111	1,111	1,111	1,111	1,111	1,111,111
2421	Knit dress gloves.....	95	95	1,111	1	1,111	932	1,111	1,111	618,111	1,111,111
2421	Knit dress gloves.....	93	93	1,111	1	1,111	898	1,111	1,111	303,111	1,111,111
2421	Knit dress gloves.....	85	85	1,111	1	1,111	56,022	193,111	1,111	146,990	1,111,111
2421	Knit dress gloves.....	91	91	641	1	29,629	110,111	1,111	1,111	80,111	1,111,111
2421	Knit dress gloves.....	91	91	121	1	32,111	121,111	1,111	1,111	84,111	1,111,111
2421	Knit dress gloves.....	59	59	1,285	1	1,285	437	1,111	1,111	3,316	1,111,111

End of table.

GENERAL SUMMARY

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BY INDUSTRY GROUPS AND INDUSTRIES: 1954 AND 1947—Continued

For definitions of industries, see Appendix A—Industry Descriptions)

1947—Continued		1947												
Value of shipments	Capital expenditures, new ⁵	Primary products specialization ratio ¹	Coverage ratio ²	Establishments	Proprietors and firm members	All employees		Production workers			Value added by manufacture, used ⁴	Value of shipments	Capital expenditures, new ⁵	Code
						Number ³	Payroll	Number ³	Man-hours	Wages				
(\$1,000)	(\$1,000)			(Number)	(Number)		(\$1,000)		(1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	
(⁶)	15,499	(NA)	(NA)	10,087	9,439	313,095	846,416	278,699	504,406	671,332	1,428,585	(⁶)	18,607	233
375,262	2,445	93	88	1,362	1,404	32,883	67,667	30,066	54,065	54,332	123,928	276,575	2,150	2331
1,455,080	5,069	95	7	4,205	3,803	133,779	372,080	118,678	212,301	295,768	612,240	1,359,030	5,156	2333
435,714	2,366	80	6	917	753	48,590	90,221	43,808	81,896	68,503	152,222	348,785	4,820	2334
1,261,320	3,621	95	73	4,711	2,893	82,650	282,804	72,858	131,160	298,185	477,223	1,092,579	5,005	2337
26,007	(13)	96	96	166	181	2,754	6,963	2,181	4,589	3,829	16,850	51,061	88	2338
252,074	1,905	70	33	466	405	12,439	26,681	11,108	20,395	20,715	46,122	97,203	1,388	2339
(⁶)	8,432	(NA)	(NA)	2,053	1,531	94,615	196,157	84,234	155,671	145,008	385,296	(⁶)	10,434	234
770,026	5,431	95	78	1,518	1,195	58,004	115,949	52,650	95,698	77,477	229,306	575,679	5,701	2341
374,500	3,001	94	90	535	336	36,611	80,208	31,584	59,073	57,791	155,990	277,791	4,733	2342
173,125	(13)	90	98	933	754	20,933	59,566	18,116	33,127	46,889	100,863	177,728	1,019	2351
(⁶)	3,844	(NA)	(NA)	1,685	1,576	48,245	100,954	43,499	80,366	79,260	177,777	(⁶)	3,433	236
291,000	1,451	93	91	665	624	22,456	43,346	20,374	38,663	33,953	76,231	174,827	1,382	2361
172,110	574	91	87	473	455	11,008	22,524	9,834	17,761	19,411	50,841	114,199	863	2363
278,248	1,818	(NA)	(NA)	547	497	14,781	35,084	13,291	24,442	25,806	50,645	111,509	1,188	2369
227,525	417	100	100	2,229	2,623	16,190	68,571	13,745	24,521	57,636	122,821	357,013	559	2371
(⁶)	4,091	89	47	1,728	1,443	57,793	120,609	51,468	95,503	92,392	217,248	(⁶)	4,241	238
39,091	(13)	89	47	133	71	5,633	9,233	5,248	9,553	7,811	14,806	30,848	646	2381
65,776	1,103	94	96	143	65	10,865	17,749	10,315	18,759	15,780	34,562	73,722	1,013	2382
10,116	(13)	74	54	64	64	1,685	3,641	1,408	2,544	2,417	6,774	14,563	42	2383
107,964	(13)	80	82	376	358	10,884	23,353	9,803	17,469	17,630	42,563	103,024	708	2384
119,660	(3)	85	73	247	221	8,573	20,272	7,568	14,833	15,448	33,444	80,751	533	2385
56,383	(13)	79	80	125	114	4,228	10,432	3,710	7,211	7,798	18,451	40,555	276	2386
106,311	658	90	95	396	361	9,162	22,016	7,573	14,338	15,889	38,037	68,982	714	2387
40,261	(13)	98	95	159	134	4,583	9,054	4,078	7,277	6,303	20,689	53,106	166	2388
26,006	(13)	96	86	85	55	2,180	4,859	1,765	3,519	3,316	7,922	13,286	143	2389
(⁶)	23,586	(NA)	(NA)	6,250	6,155	126,663	271,168	112,300	218,455	208,622	528,427	(⁶)	16,825	239
172,668	1,208	97	90	397	286	7,982	17,081	6,928	13,354	11,702	34,909	109,640	748	2391
503,203	4,363	93	1087	1,232	1,114	39,946	78,272	36,119	69,064	62,565	155,715	502,461	5,001	2392
220,078	3,941	93	98	232	140	13,850	28,779	12,129	23,356	20,984	66,320	355,981	3,918	2393
129,611	1,285	91	93	903	857	10,603	24,751	8,669	17,953	17,491	41,424	91,108	1,399	2394
34,578	644	(10)	(10)	531	626	5,929	12,421	5,532	10,416	11,035	21,339	25,237	298	2395
242,915	7,691	94	95	785	789	14,521	32,720	12,676	24,165	24,622	62,587	127,672	1,905	2396
65,834	1,016	98	96	546	710	5,678	15,054	5,080	10,458	11,681	31,733	55,514	826	2397
56,155	716	97	96	787	936	9,836	20,234	9,308	16,981	17,627	34,521	44,392	349	2398
201,198	2,719	88	87	837	607	18,318	42,356	15,859	32,708	30,915	79,879	189,632	2,381	2399
(⁶)	217,361	(NA)	(NA)	(⁸)	(⁸)	(⁸)	(⁸)	(⁸)	(⁸)	(⁸)	(⁸)	(⁸)	(⁸)	24
733,417	48,632	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	2411
(⁶)	120,128	(NA)	(NA)	19,695	24,021	409,808	803,116	391,543	807,839	734,138	1,571,978	(⁶)	115,930	242
3,247,200	115,533	(NA)	(NA)	19,049	23,770	383,449	752,522	366,551	761,770	689,266	1,487,969	2,519,455	110,617	2421
120,718	3,146	92	83	156	85	10,461	20,441	9,722	20,648	17,248	36,858	67,423	3,702	2422
33,632	984	100	86	184	...	2,446	7,321	2,446	...	7,321	15,465	26,254	...	2423
26,330	(13)	96	92	250	109	12,291	20,253	11,739	22,928	17,984	27,191	55,132	1,376	2424
12,066	(13)	100	87	56	57	1,161	2,579	1,085	2,493	2,319	4,495	7,508	235	2425
(⁶)	28,613	(NA)	(NA)	2,750	2,250	97,347	263,712	85,607	183,552	213,282	454,352	(⁶)	26,998	243
873,007	13,737	90	92	2,381	2,043	59,783	162,050	51,901	109,998	128,695	266,452	546,182	13,499	2431
515,023	11,193	93	96	163	71	27,489	73,783	25,325	56,456	64,203	149,205	272,059	10,057	2432
224,388	3,681	93	96	206	136	10,075	27,879	8,381	17,098	20,384	38,695	103,311	3,442	2433
(⁶)	8,124	(NA)	(NA)	1,516	1,147	69,104	139,553	64,727	136,963	121,257	233,453	(⁶)	11,596	244
30,516	674	91	88	141	138	9,105	13,398	8,781	18,080	12,093	19,330	30,584	872	2441
11,017	(13)	80	83	53	57	1,073	2,001	983	2,047	1,776	3,573	7,243	74	2442
7,809	(13)	100	85	42	25	1,875	3,135	1,747	3,396	2,650	4,655	8,102	144	2443
352,108	6,109	96	85	1,025	845	47,828	98,833	44,606	95,983	85,757	174,545	365,290	8,738	2444
60,350	973	96	97	255	82	9,223	22,086	8,610	17,457	18,981	31,350	106,379	1,768	2445
(⁶)	11,863	(NA)	(NA)	2,351	1,854	65,540	145,576	59,535	126,748	122,375	260,619	(⁶)	17,050	249
190,503	4,700	(D)	(D)	242	54	16,247	37,142	14,772	31,706	32,020	92,041	(NA)	6,243	2491
11,953	(13)	(D)	(D)	50	13	1,959	5,348	1,699	3,417	4,159	8,937	13,129	253	2492
47,622	(13)	89	92	246	208	3,811	10,255	3,293	6,675	7,742	15,506	25,555	296	2493
329,758	6,605	87	94	1,813	1,579	43,523	92,831	39,771	84,950	78,454	144,135	277,075	10,258	2499
(⁶)	61,945	(NA)	(NA)	7,551	6,112	316,273	806,948	277,909	583,572	641,673	1,346,277	(⁶)	77,441	25
(⁶)	40,284	(NA)	(NA)	4,879	3,774	228,429	558,058	203,570	426,613	450,182	932,405	(⁶)	56,900	251
1,113,264	17,161	94	94	2,248	1,692	132,050	304,614	120,062	256,896	253,156	489,145	898,674	32,257	2511
632,813	6,934	92	83	1,391	1,086	44,755	114,861	39,786	80,656	92,908	191,430	381,053	9,833	2512
402,575	8,720	83	73	312	178	19,651	52,463	16,819	34,381	40,240	97,087	194,851	7,194	2514
464,516	5,306	76	93	878	780	30,320	82,603	25,444	51,620	60,802	146,005	331,004	7,434	2515
15,576	2,161	83	71	50	38	1,653	4,057	1,459	3,060	3,076	7,738	14,030	182	2519

GENERAL SUMMARY

Table 2A.—GENERAL STATISTICS FOR OPERATING MANUFACTURING ESTABLISHMENTS
(For explanation of column captions see Introduction.)

Code	Industry group and industry	1954									
		Primary products specialization ratio ¹	Coverage ratio ²	Establishments (Number)	Pro- pri- etors and firm mem- bers (Number)	All employees		Production workers			Value added by manu- facture, unad- justed ⁴ (\$1,000)
						Number ³	Payroll (\$1,000)	Number ³	Man-hours (1,000)	Wages (\$1,000)	
	Furniture and fixtures—Continued										
252	Office furniture.....	84	87	241	113	21,652	84,826	18,170	36,447	66,140	154,566
2521	Wood office furniture.....	86	86	112	60	5,509	18,788	4,773	9,681	14,605	28,757
2522	Metal office furniture.....	84	87	129	53	16,143	66,038	13,397	26,765	51,535	125,808
253	Public and professional furniture.....	84	81	394	216	19,570	75,730	15,791	32,955	54,758	125,674
2531	Public-building furniture.....	83	86	292	174	14,044	52,638	11,556	24,120	38,905	87,446
2532	Professional furniture.....	81	68	102	42	5,526	23,092	4,234	8,834	15,853	38,228
2541	Partitions and fixtures.....	88	87	1,626	1,191	33,137	142,515	26,584	53,101	102,071	230,712
256	Screens, shades, and blinds.....	86	84	1,327	1,172	18,189	59,722	14,328	27,999	40,090	109,931
2561	Window and door screens.....	73	64	215	172	4,405	16,887	3,632	7,240	11,376	32,630
2562	Window shades.....	85	78	196	152	4,368	15,580	3,404	6,746	10,648	29,604
2563	Venetian blinds.....	85	93	916	848	9,416	27,254	7,290	14,012	18,065	47,696
259	Furniture and fixtures, n.e.c.....	75	74	215	181	4,211	15,687	3,512	6,968	11,485	24,782
2591	Restaurant furniture.....	72	78	163	145	3,401	12,718	2,809	5,594	9,245	18,790
2599	Furniture and fixtures, n.e.c.....	83	61	52	36	810	2,969	703	1,373	2,240	5,992
26	Pulp, paper and products.....	(NA)	(NA)	5,004	1,360	530,210	2,217,420	435,727	919,940	1,656,720	4,580,944
261	Pulp, paper and board.....	99	100	932	11	216,255	974,866	183,039	401,498	777,832	2,289,349
2611	Pulp mills.....	99	100	252	3	57,672	256,622	48,896	105,252	207,188	704,274
2612	Paper and paperboard mills.....	99	100	589	7	142,191	648,972	119,859	265,871	513,108	1,429,659
2613	Building paper and board mills.....	98	97	91	1	16,391	69,271	14,284	30,374	57,536	155,415
2641	Paper coating and glazing.....	85	86	277	84	27,697	123,991	20,017	42,091	80,101	282,067
2651	Envelopes.....	96	92	196	37	15,902	63,044	13,019	26,517	43,516	101,430
2661	Paper bags.....	91	88	381	110	33,326	121,116	27,773	56,227	89,530	211,688
267	Paperboard containers.....	96	98	1,888	622	145,053	570,643	118,223	242,171	406,137	969,675
2671	Paperboard boxes.....	96	98	1,704	559	132,964	525,685	107,762	221,054	371,275	895,298
2674	Fiber cans, tubes, drums, etc.....	97	87	184	63	12,088	44,958	10,460	21,117	34,861	74,377
269	Pulp, paper and board products, n.e.c.....	91	89	1,330	496	91,974	363,760	73,654	151,434	259,602	726,732
2691	Die-cut paper and board.....	88	82	352	196	12,260	47,940	9,933	19,677	34,633	97,964
2693	Wallpaper.....	99	98	76	17	3,636	14,330	2,926	6,038	10,325	19,005
2694	Pulp goods, pressed and molded.....	100	93	29	10	2,882	11,630	2,401	5,018	9,111	25,439
2699	Paper and board products, n.e.c.....	90	89	873	273	73,195	289,859	58,393	120,699	205,532	584,323
27	Printing and publishing.....	(NA)	(NA)	32,531	24,329	804,386	3,625,133	499,666	961,465	2,115,344	6,264,558
2711	Newspapers.....	95	100	8,646	6,962	281,799	1,262,793	148,941	281,198	667,058	2,144,223
2721	Periodicals.....	95	97	2,045	773	62,428	312,695	16,348	29,614	68,218	795,543
273	Books.....	89	80	1,412	758	57,400	245,196	27,893	55,025	107,607	539,395
2731	Books: publishing and printing.....	91	90	814	330	34,704	144,757	8,802	17,098	29,250	394,702
2732	Book printing.....	76	55	598	428	22,695	100,439	19,090	37,927	78,356	144,692
2741	Miscellaneous publishing.....	85	82	946	504	18,378	73,174	5,271	9,570	24,090	149,310
2751	Commercial printing.....	85	86	12,073	10,106	200,233	888,659	157,567	305,988	650,828	1,357,820
2761	Lithographing.....	82	79	2,924	2,035	77,717	376,571	60,178	117,968	261,249	578,883
2771	Greeting cards.....	93	89	294	172	21,347	70,434	15,297	28,624	41,960	131,343
278	Bookbinding and related industries.....	89	85	1,419	1,117	37,305	130,670	31,646	61,124	98,243	199,271
2781	Bookbinding.....	91	86	730	603	17,178	58,966	15,453	29,368	48,450	84,741
2782	Blankbooks and paper ruling.....	76	66	334	255	8,624	29,831	6,952	13,425	20,760	47,910
2783	Loose-leaf binders and devices.....	74	82	154	92	8,199	30,948	6,329	12,659	20,788	49,651
2789	Miscellaneous bookbinding work.....	84	83	201	167	3,303	10,925	2,910	5,671	8,244	16,968
279	Printing trade services.....	96	91	2,772	1,902	47,777	264,937	36,522	72,350	196,087	368,766
2791	Typesetting.....	94	87	1,081	870	14,550	74,558	11,744	23,082	57,492	106,909
2792	Engraving and plate printing.....	93	79	567	438	7,510	29,412	6,080	11,963	21,739	43,385
2793	Photoengraving.....	95	93	891	525	17,711	112,575	12,778	25,575	82,634	148,876
2794	Electrotyping and stereotyping.....	89	89	233	69	8,005	48,391	5,917	11,728	34,220	69,594
28	Chemicals and allied products.....	(NA)	(NA)	11,075	3,523	739,389	3,407,199	501,272	1,016,053	2,005,627	9,443,629
281	Inorganic chemicals.....	89	83	518	91	121,252	593,576	77,544	158,415	346,270	1,386,544
2811	Sulfuric acid.....	78	66	47	...	3,805	16,730	2,927	5,922	12,119	66,175
2812	Alkalies and chlorine.....	76	84	29	...	20,440	96,047	15,198	31,393	67,890	251,033
2819	Inorganic chemicals, n.e.c.....	87	78	442	91	97,006	480,798	59,418	121,099	266,260	1,069,335

See footnotes at end of table.

GENERAL SUMMARY

11

BY INDUSTRY GROUPS AND INDUSTRIES: 1954 AND 1947—Continued

For definitions of industries, see Appendix A—Industry Descriptions)

1954—Continued		1947												Code
Value of shipments	Capital expenditures, new ²	Primary products specialization ratio ¹	Coverage ratio ²	Establishments	Proprietors and firm members	All employees		Production workers			Value added by manufacture, unadjusted ⁴	Value of shipments	Capital expenditures, new ⁵	
						Number ³	Payroll	Number ³	Man-hours	Wages				
(\$1,000)	(\$1,000)			(Number)	(Number)		(\$1,000)		(1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	
(6)	5,350	(NA)	(NA)	216	109	20,747	58,222	17,527	36,410	45,888	104,548	173,165	5,739	252
52,712	615	92	80	114	70	6,458	16,805	5,754	12,583	13,782	25,863	47,483	1,544	2521
202,932	4,734	89	92	102	39	14,289	41,417	11,768	23,827	32,106	78,685	125,682	4,195	2522
(6)	4,732	(NA)	(NA)	182	95	15,410	44,127	12,729	27,174	32,509	70,288	(6)	2,443	253
159,545	3,781	68	80	120	65	10,213	28,629	8,542	18,034	21,562	44,614	75,992	1,379	2531
65,401	951	62	67	62	30	5,137	15,498	4,187	9,140	10,947	25,674	41,757	1,064	2532
306,974	7,031	88	89	1,135	954	27,816	89,115	23,888	51,175	70,180	137,814	245,864	5,403	2543
(6)	3,853	(NA)	(NA)	937	1,004	14,652	45,850	16,530	34,320	33,600	81,872	(6)	6,149	256
70,877	1,156	65	61	164	232	4,206	10,892	3,619	7,720	7,962	19,166	39,424	2,261	2561
64,110	805	73	79	126	79	5,748	14,609	4,635	9,409	10,203	25,609	56,903	2,116	2562
114,152	1,892	96	92	647	693	9,698	20,349	8,276	17,191	15,435	37,097	83,660	1,772	2563
(6)	694	(NA)	(NA)	202	176	4,219	11,576	3,665	7,880	9,314	19,350	(6)	807	259
36,751	559	87	69	172	151	3,361	9,149	2,871	6,188	7,261	15,182	26,192	653	2591
11,075	(13)	91	56	30	25	858	2,427	794	1,692	2,053	4,168	6,417	154	2599
(6)	532,723	(NA)	(NA)	4,100	1,289	454,075	1,294,535	391,715	857,344	1,018,339	2,913,197	(6)	406,779	26
(6)	370,539	99	100	890	27	197,893	607,586	173,880	396,974	508,180	1,462,813	(6)	290,526	261
1,577,291	148,475	99	100	226	7	50,290	148,125	45,412	99,894	127,452	415,938	939,604	85,507	2611
3,792,810	213,050	100	100	664	20	147,603	459,461	128,468	297,080	380,728	1,046,875	2,804,463	205,019	2612
305,302	9,013													
622,192	15,240	87	92	181	28	22,269	70,661	17,733	38,967	50,047	165,580	401,371	10,072	2641
195,341	6,942	92	95	164	43	13,797	39,191	11,543	24,898	27,656	68,253	128,346	5,338	2651
623,068	18,901	96	86	192	65	22,230	53,774	19,527	41,350	42,265	119,074	319,928	9,189	2661
(6)	63,899	97	98	1,649	705	118,982	315,838	102,730	216,028	235,766	669,287	(6)	52,014	267
2,179,580	60,490	97	98	1,520	647	109,745	292,865	94,596	199,527	217,079	632,933	1,474,743	47,274	2671
146,797	3,408	97	93	129	58	9,237	22,973	8,134	16,501	18,687	36,354	73,812	4,740	2674
(6)	57,201	(NA)	(NA)	1,024	421	73,904	207,485	66,302	139,127	154,425	428,190	(6)	39,640	269
206,652	6,424	(NA)	(NA)	208	109	9,281	25,478	7,739	16,161	18,864	50,224	97,655	2,052	2691
39,668	526	98	100	58	4	5,462	16,287	4,771	10,696	12,222	32,732	58,895	5,994	2693
42,293	3,215	95	86	19	10	1,748	4,910	1,482	3,224	3,870	9,672	16,191	1,046	2694
1,427,622	47,034	86	86	739	298	62,413	160,810	52,310	109,046	119,469	335,562	786,917	30,548	2699
(6)	236,897	(NA)	(NA)	28,978	22,685	715,120	2,276,262	437,880	888,254	1,317,573	4,248,773	(6)	226,368	27
3,091,027	75,536	94	100	8,340	7,069	234,375	743,854	118,116	229,669	372,752	1,405,709	1,917,302	81,583	2711
1,440,961	14,542	94	98	2,166	727	68,957	235,706	19,472	42,064	64,453	638,384	1,059,368	34,308	2721
(6)	14,801	(NA)	(NA)	805	273	51,964	146,013	18,338	37,731	52,400	325,907	(6)	11,578	273
665,232	7,558	92	93	648	219	39,942	104,278	8,092	16,740	20,142	262,903	463,851	7,310	2731
221,328	7,243	77	44	157	54	12,022	41,735	10,246	20,991	32,258	63,004	92,303	4,268	2733
231,242	3,270	93	78	611	332	12,036	35,200	3,430	6,735	8,475	72,151	103,343	1,262	2741
2,202,074	65,822	86	86	11,920	10,459	191,719	594,125	154,520	320,011	449,830	970,291	1,513,136	60,677	2751
962,552	34,854	77	77	1,415	901	52,408	192,657	41,367	85,212	127,151	314,132	488,569	17,387	2761
208,905	8,809	92	87	162	88	18,053	43,898	12,650	24,582	23,900	81,051	123,856	2,512	2771
(6)	7,458	(NA)	(NA)	1,342	1,190	42,561	107,466	36,437	73,120	84,632	177,144	(6)	7,485	278
111,970	3,666	84	87	686	628	22,227	57,541	20,037	40,241	48,857	90,259	115,963	3,549	2781
79,185	1,802	85	66	305	278	8,768	21,028	7,039	13,892	14,654	36,622	60,324	2,145	2782
78,670	1,285	75	83	131	86	8,133	20,946	6,445	13,024	14,914	36,797	58,001	1,168	2783
22,370	703	87	79	220	198	3,433	7,951	2,916	5,963	6,207	13,466	17,185	623	2789
(6)	11,802	(NA)	(NA)	2,217	1,646	43,047	177,343	33,550	69,130	133,980	264,004	(6)	9,576	279
121,390	4,267	94	87	794	694	11,475	44,906	9,301	19,515	35,409	66,842	75,703	1,982	2791
60,084	1,702	92	80	416	346	7,688	20,998	6,463	13,196	16,959	33,094	45,311	544	2792
173,040	3,986	96	95	770	540	16,711	80,003	12,234	24,942	57,962	116,131	133,540	4,640	2793
85,894	1,845	92	87	237	66	7,173	31,436	5,552	11,477	23,650	47,937	58,984	2,410	2794
(6)	926,613	(NA)	(NA)	10,019	4,034	626,418	1,898,472	464,144	974,684	1,236,012	5,317,001	(6)	804,958	28
(6)	219,273	(NA)	(NA)	408	105	62,448	194,784	48,270	100,035	141,012	425,184	(6)	115,954	281
139,270	10,803	(10)	(10)	43	...	3,110	9,208	2,549	5,333	7,253	31,097	60,568	6,559	2811
399,908	34,728	81	85	32	2	19,853	63,822	15,017	31,815	45,494	113,868	208,560	56,404	2812
1,859,372	173,741	(10)	(10)	333	103	39,485	121,754	30,704	62,887	88,265	280,219	562,458	52,991	2819

GENERAL SUMMARY

Table 2A.—GENERAL STATISTICS FOR OPERATING MANUFACTURING ESTABLISHMENTS

(For explanation of column captions see Introduction.)

Code	Industry group and industry	1954									
		Pri- mary prod- ucts spe- ciali- zation ratio ¹	Cover- age ratio ²	Estab- lish- ments (Number)	Pro- pri- etors and firm mem- bers (Number)	All employees		Production workers			Value added by manu- facture, unadjusted ⁴
						Number ³	Payroll (\$1,000)	Number ³	Man-hours (1,000)	Wages (\$1,000)	
	Chemicals and allied products—Con.										
282	Organic chemicals ¹⁵	91	90	772	56	245,465	1,193,196	176,220	351,388	769,231	3,214,454
2821	Cyclic (coal tar) crudes.....	82	72	43	...	1,925	8,246	1,488	2,829	5,620	22,175
2822	Intermediates and organic colors.....	64	66	107	2	32,748	165,511	22,297	44,142	99,416	362,305
2823	Plastics materials.....	90	75	206	17	41,145	201,487	28,388	57,441	122,188	583,224
2824	Synthetic rubber.....	98	90	21	...	8,531	44,502	6,178	12,217	30,214	152,906
2825	Synthetic fiber.....	96	99	46	...	61,105	261,753	45,894	89,959	174,376	717,226
2826	Explosives ¹⁵	98	91	74	5	32,478	146,843	25,544	51,696	109,986	205,442
2829	Organic chemicals, n.e.c.....	77	80	275	32	67,531	364,852	46,428	93,101	227,428	1,171,165
283	Drugs and medicines.....	94	4	1,371	424	92,062	426,430	57,927	117,075	216,003	1,336,562
2831	Biological products.....	86	65	93	32	3,965	15,789	2,864	5,722	9,333	36,680
2833	Medicinal chemicals (inc. botanicals)...	60	59	115	24	11,541	56,872	7,743	16,229	33,345	138,877
2834	Pharmaceutical preparations.....	91	94	1,163	368	76,555	353,769	47,320	95,123	173,324	1,161,004
284	Soap and related products.....	87	64	1,543	717	46,221	219,412	27,571	51,973	107,627	827,668
2841	Soap and glycerin.....	84	1074	289	114	25,839	127,817	15,668	29,259	68,303	510,756
2842	Cleaning and polishing preparations....	80	1045	1,151	581	18,026	78,550	10,551	20,206	34,593	288,590
2843	Sulfonated oils and assistants.....	74	78	103	22	2,355	13,044	1,352	2,507	4,729	28,322
285	Paints and allied products.....	95	95	1,671	542	69,973	324,005	43,673	87,408	167,344	849,895
2851	Paints and varnishes.....	95	97	1,469	486	56,580	263,887	33,865	67,660	127,640	642,656
2852	Inorganic color pigments.....	88	88	104	19	12,182	54,755	9,042	18,220	37,193	196,901
2853	Whiting and fillers.....	89	47	98	37	1,210	5,363	764	1,528	2,510	10,337
286	Gum and wood chemicals.....	76	98	117	54	7,245	26,680	6,052	12,764	19,872	62,053
2861	Hardwood distillation.....	91	100	34	21	1,627	5,222	1,384	2,896	4,114	7,419
2862	Softwood distillation.....	68	98	27	16	4,431	17,662	3,698	7,886	13,260	47,374
2863	Gum rosin stores.....	88	95	26	12	516	1,289	423	927	902	2,473
2865	Tanning and dyeing materials.....	83	92	30	5	670	2,507	545	1,054	1,594	4,785
287	Fertilizers.....	96	97	840	204	31,769	111,528	24,595	53,102	76,914	252,422
2871	Fertilizers.....	96	1060	260	32	19,728	73,048	15,728	34,527	53,431	171,297
2872	Fertilizers, mixing only.....	95	1044	580	172	12,040	38,480	8,866	18,575	23,483	81,125
288	Vegetable and animal oils.....	91	88	1,013	402	39,964	152,708	31,003	71,890	105,291	385,475
2881	Cottonseed oil mills.....	96	93	286	27	13,665	43,103	11,082	27,080	29,831	101,164
2882	Linseed oil mills.....	94	90	12	...	1,263	5,625	1,026	2,479	4,860	16,679
2883	Soybean oil mills.....	88	96	88	1	6,922	29,453	5,447	11,624	20,679	106,938
2884	Vegetable oil mills, n.e.c.....	58	80	51	16	2,460	9,198	1,893	4,041	6,337	21,240
2886	Grease and tallow.....	88	55	500	339	11,466	46,633	8,480	19,567	31,291	95,451
2887	Fatty acids.....	68	73	15	2	1,891	10,263	1,185	2,712	6,009	21,922
2889	Animal oils, n.e.c.....	89	66	61	17	2,294	8,430	1,889	4,384	6,282	22,079
289	Chemical products, n.e.c.....	90	79	3,230	1,033	85,436	359,661	56,684	112,035	197,071	1,128,552
2891	Printing ink.....	90	95	271	69	7,609	35,713	5,268	10,699	20,746	87,289
2892	Essential oils.....	83	67	37	12	547	2,846	330	636	1,215	5,484
2893	Toilet preparations.....	91	1077	710	262	24,809	94,726	16,185	31,051	47,728	419,666
2894	Glue and gelatin.....	87	67	230	64	6,753	29,192	4,814	9,425	17,683	64,771
2895	Carbon black.....	100	98	47	...	3,410	16,466	2,801	6,112	13,029	62,424
2896	Compressed and liquefied gases.....	99	84	428	26	10,363	44,092	6,315	13,143	25,288	111,254
2897	Insecticides and fungicides.....	84	82	265	73	6,510	25,218	4,276	8,224	13,211	62,099
2898	Salt.....	96	97	38	12	4,017	16,379	3,346	7,299	12,694	48,936
2899	Chemical products, n.e.c.....	81	70	1,204	515	21,415	95,026	13,346	25,443	45,473	266,627
29	Petroleum and coal products.....	(NA)	(NA)	1,381	292	215,843	1,101,814	163,811	322,947	778,408	2,582,613
2911	Petroleum refining.....	99	98	409	81	153,072	816,120	113,829	223,116	570,791	1,901,333
293	Coke and byproducts.....	100	100	119	11	32,504	148,579	27,967	53,636	119,165	373,874
2931	Beehive coke ovens.....	100	101	40	11	594	1,652	548	581	1,471	2,494
2932	Byproducts coke ovens.....	100	1099	79	...	31,909	146,927	27,419	53,054	117,693	371,380
295	Paving and roofing materials.....	93	95	523	105	20,097	88,146	15,768	33,638	63,372	199,584
2951	Paving mixtures and blocks.....	97	94	326	62	4,367	20,092	3,260	6,688	12,508	50,260
2952	Roofing felts and coatings.....	91	94	197	43	15,730	68,054	12,507	26,950	50,863	149,323
299	Petroleum and coal products, n.e.c.....	89	22	330	95	10,169	48,967	6,246	12,556	25,079	107,818
2992	Lubricants, n.e.c.....	87	1018	283	88	8,159	40,062	4,702	9,414	18,912	85,063
2999	Petroleum and coal products, n.e.c.....	94	89	47	7	2,009	8,905	1,544	3,141	6,167	22,754
30	Rubber products.....	(NA)	(NA)	1,406	523	246,526	1,059,337	196,238	377,414	775,499	1,903,702
3011	Tires and inner tubes.....	88	99	49	4	92,748	441,607	73,976	137,981	334,104	844,545
3021	Rubber footwear.....	84	85	22	1	18,322	64,022	15,773	30,317	51,296	107,027
3031	Reclaimed rubber.....	87	74	20	3	2,953	12,697	2,460	4,602	9,671	22,042
3099	Rubber industries, n.e.c.....	88	78	1,315	515	132,503	541,011	104,028	204,513	380,427	930,086

See footnotes at end of table.

GENERAL SUMMARY

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BY INDUSTRY GROUPS AND INDUSTRIES: 1954 AND 1947—Continued

For definitions of industries, see Appendix A—Industry Descriptions)

1954—Continued		1947												Code
Value of shipments	Capital expenditures, new ⁵	Primary products specialization ratio ¹	Coverage ratio ²	Establishments	Proprietors and firm members	All employees		Production workers			Value added by manufacture, unadjusted ⁴	Value of shipments	Capital expenditures, new ⁵	
						Number ³	Payroll	Number ³	Man-hours	Wages				
(\$1,000)	(\$1,000)			(Number)	(Number)		(\$1,000)		(1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	
(⁶)	430,665	(NA)	(NA)	563	52	203,914	648,046	157,842	322,687	458,422	1,536,066	(⁶)	397,168	282
77,154	2,199	85	78	46	1	1,972	5,490	1,633	3,727	4,527	17,071	60,639	1,981	2821
715,602	72,067	(10)	(10)	93	...	33,603	115,076	25,539	52,000	80,473	259,771	478,552	...	2822
1,231,448	108,058	92	1077	123	6	28,627	91,397	21,810	46,250	63,295	197,558	478,331	58,386	2823
361,093	13,760	96	89	20	...	7,663	25,774	5,721	11,262	18,381	97,356	235,200	4,121	2824
1,240,942	62,751	97	98	38	5	69,683	199,910	57,857	116,820	150,380	433,285	705,271	67,953	2825
389,638	17,279	87	99	76	3	10,426	32,313	8,932	18,121	26,451	74,706	136,356	6,050	2826
2,198,687	154,550	(10)	(10)	167	37	51,940	178,036	36,350	74,507	119,415	456,319	973,044	118,677	2827
(⁶)	55,761	(NA)	(NA)	1,354	543	81,497	236,191	54,447	110,124	132,765	747,311	(⁶)	11,455	283
60,973	2,510	87	57	84	55	2,987	8,474	2,189	4,524	4,994	19,161	37,737	1,360	2831
252,478	12,948	73	74	107	31	13,097	42,220	9,920	21,074	29,277	119,525	218,156	11,190	2832
1,643,140	40,303	91	98	1,163	457	65,413	185,497	42,338	84,526	98,494	608,625	941,290	59,405	2834
(⁶)	27,648	(NA)	(NA)	1,391	774	44,864	149,497	29,654	62,408	81,852	606,801	(⁶)	35,125	284
959,679	13,358	81	91	247	106	27,508	93,187	19,304	41,058	57,391	449,792	1,084,032	24,080	2841
560,059	12,711	70	1052	1,038	631	15,387	48,324	9,093	18,624	20,983	136,602	264,610	9,655	2842
62,977	1,578	77	76	106	37	1,969	7,986	1,257	2,726	3,478	20,407	52,075	1,390	2843
(⁶)	30,092	(NA)	(NA)	1,457	550	68,933	228,559	46,598	99,226	127,508	583,557	(⁶)	53,524	285
1,494,399	21,268	94	96	1,291	495	53,412	180,952	34,693	73,599	94,155	469,584	1,248,841	33,884	2851
371,395	8,358	88	84	95	19	14,266	43,466	11,086	23,845	31,303	104,978	287,046	19,329	2852
24,203	(13)	81	53	71	36	1,255	4,141	819	1,782	2,050	8,995	18,791	311	2853
(⁶)	7,742	(NA)	(NA)	117	66	8,447	20,472	7,370	15,404	16,308	62,796	(⁶)	3,700	286
16,006	(13)	94	96	28	13	1,879	4,157	1,624	3,412	3,328	7,528	13,803	608	2861
88,650	6,662	83	99	31	24	4,567	11,798	4,065	8,417	9,640	46,026	72,921	2,488	2862
24,840	(13)	98	99	31	25	638	1,385	512	1,185	947	2,634	38,508	336	2863
13,818	(13)	88	78	27	4	1,363	3,132	1,169	2,390	2,393	6,608	17,775	268	2865
(⁶)	46,587	98	95	705	216	31,972	71,700	26,610	57,043	52,842	186,926	(⁶)	17,133	287
533,448	33,762	92	60	187	13	20,357	47,928	17,359	37,802	37,235	126,919	312,229	10,823	2871
329,328	12,825	98	1047	518	203	11,615	23,772	9,251	19,241	15,607	60,007	193,318	6,310	2872
(⁶)	41,442	(NA)	(NA)	1,192	625	43,323	116,926	35,788	85,385	85,751	482,002	(⁶)	51,816	288
546,430	11,680	90	90	315	47	14,398	31,419	12,136	30,996	22,560	104,603	518,091	9,804	2881
139,619	1,311	77	87	17	...	1,577	4,536	1,349	2,838	3,628	42,243	192,173	5,086	2882
826,362	8,479	96	80	123	34	6,460	18,773	5,076	11,459	13,489	105,291	585,709	15,887	2883
165,982	2,470	80	89	84	16	5,036	13,356	4,292	10,182	9,873	77,509	334,231	5,252	2884
222,516	8,138	90	1052	554	477	12,364	38,588	9,967	23,351	28,419	118,356	303,291	12,611	2886
55,991	4,819	86	76	16	3	1,335	4,433	1,037	2,239	3,055	17,151	68,094	1,427	2887
65,374	4,544	94	(10)	73	48	2,153	5,821	1,931	4,320	4,727	16,849	42,940	1,749	2889
(⁶)	67,398	(NA)	(NA)	2,832	1,103	81,020	232,297	57,565	122,372	139,552	686,358	(⁶)	55,533	289
180,638	6,336	92	98	239	57	6,021	20,496	4,154	9,005	11,890	51,949	115,708	2,973	2891
20,832	(13)	71	92	42	16	1,151	3,787	896	1,761	2,510	14,477	35,739	593	2892
628,651	7,537	84	1072	719	330	27,247	69,398	19,047	38,297	38,978	232,118	381,371	9,192	2893
139,352	2,945	82	76	174	19	7,936	25,453	5,362	9,487	16,502	66,290	145,157	3,249	2894
101,616	10,597	100	97	59	...	3,184	10,017	2,834	6,073	8,456	44,962	73,592	7,023	2895
167,674	19,840	100	84	371	17	8,983	25,241	6,139	13,247	16,996	66,833	93,489	9,709	2896
174,613	2,988	87	68	165	54	4,060	11,524	2,789	5,761	6,448	25,018	67,010	3,438	2897
71,933	4,328	100	98	38	5	4,809	12,762	4,056	8,592	9,826	25,197	46,056	4,181	2898
531,213	12,586	75	64	1,025	605	17,629	53,619	11,688	30,149	27,946	159,514	318,063	15,225	2899
(⁶)	753,184	(NA)	(NA)	1,411	398	207,618	725,933	165,405	354,089	543,362	1,990,944	(⁶)	399,754	29
11,757,218	656,033	99	97	437	103	145,806	535,781	113,847	237,506	396,236	1,494,474	6,623,708	316,370	2911
(⁶)	79,301	100	100	149	62	32,819	101,014	29,232	69,633	85,610	243,013	(⁶)	64,263	293
9,042	(13)	100	109	78	62	3,100	10,251	2,935	5,971	9,597	21,661	70,237	376	2931
1,241,327	79,277	100	1092	71	....	29,719	90,763	26,297	63,662	76,013	221,352	854,025	63,887	2932
(⁶)	13,155	(NA)	(NA)	438	111	19,291	58,117	15,803	35,490	44,053	155,814	(⁶)	15,134	295
126,561	5,367	99	98	264	75	2,785	8,565	2,042	4,581	5,618	23,249	50,977	2,924	2951
400,826	7,787	95	95	174	36	16,506	49,552	13,761	30,909	38,435	132,565	338,219	12,210	2952
(⁶)	4,694	(NA)	(NA)	387	122	9,702	31,071	6,523	11,460	17,463	97,643	(⁶)	3,987	299
224,216	4,314	89	1019	275	67	8,002	26,263	5,070	8,455	13,421	80,289	199,357	3,168	2992
58,486	(13)	100	100	112	55	1,697	4,808	1,453	3,005	4,042	17,354	47,491	819	2999
(⁶)	128,431	(NA)	(NA)	872	366	258,237	781,378	213,823	423,667	613,189	1,299,491	(⁶)	109,783	30
1,841,732	67,430	90	95	57	19	115,657	390,841	93,916	185,392	311,276	650,165	1,547,040	54,883	3011
166,367	4,217	80	99	26	1	28,125	72,666	23,952	48,954	58,462	121,040	198,691	4,982	3021
38,996	2,834	95	44	15	14	2,070	6,849	1,855	4,015	5,826	9,604	17,263	2,864	3031
1,677,072	53,949	85	81	774	332	112,385	311,022	94,100	185,306	237,625	518,682	945,257	47,054	3099

Table 2A.—GENERAL STATISTICS FOR OPERATING MANUFACTURING ESTABLISHMENTS

(For explanation of column captions see Introduction.)

Code	Industry group and industry	1954									
		Primary products specialization ratio ¹	Coverage ratio ²	Establishments (Number)	Proprietors and firm members (Number)	All employees		Production workers			Value added by manufacture, unadjusted ⁴ (\$1,000)
						Number ³	Payroll (\$1,000)	Number ³	Man-hours (1,000)	Wages (\$1,000)	
31	Leather and leather products.....	(NA)	(NA)	4,845	2,565	356,578	1,027,314	321,161	586,857	833,694	1,637,417
3111	Leather tanning and finishing.....	98	100	579	208	43,468	168,139	38,662	75,689	137,487	264,264
3121	Industrial leather belting.....	97	92	136	57	4,576	18,569	3,342	6,513	11,484	34,911
3131	Footwear cut stock.....	97	96	563	271	20,059	57,113	17,641	32,533	44,231	87,185
314	Footwear (except rubber).....	100	100	1,369	363	230,255	619,332	209,568	373,455	513,053	985,754
3141	Footwear, except rubber.....	99	99	1,196	291	219,375	589,267	199,907	356,681	490,142	940,704
3142	House slippers.....	89	87	173	72	10,879	30,065	9,661	16,773	22,911	45,050
315	Leather gloves.....	88	90	239	185	6,917	15,573	6,182	10,433	12,345	23,185
3151	Leather dress gloves.....	86	91	143	107	4,438	9,739	3,969	6,518	7,642	13,559
3152	Leather work gloves.....	82	81	96	78	2,479	5,834	2,212	3,915	4,702	9,626
3161	Luggage.....	94	97	497	362	15,856	51,679	13,960	27,417	39,753	89,385
317	Purses and small leather goods.....	96	96	973	710	29,544	80,434	26,693	50,978	62,947	125,517
3171	Handbags and purses.....	97	98	714	490	22,881	61,405	20,911	39,942	49,620	92,968
3172	Small leather goods.....	91	87	259	220	6,663	19,029	5,782	11,035	13,326	32,549
319	Miscellaneous leather goods.....	92	85	489	409	5,900	16,472	5,109	9,835	12,392	27,211
3192	Saddlery, harness, and whips.....	88	87	106	99	1,289	3,533	1,113	2,168	2,690	5,116
3199	Leather goods, n.e.c.....	91	82	383	310	4,611	12,938	3,996	7,667	9,702	22,095
32	Stone, clay, and glass products.....	(NA)	(NA)	11,162	7,843	491,814	1,938,085	412,031	827,012	1,496,029	3,821,659
3211	Flat glass.....	¹⁰ 90	(D)	32	...	24,559	132,509	21,389	44,344	114,966	252,313
322	Pressed and blown glassware.....	99	99	372	172	91,334	354,568	79,082	154,346	287,883	674,382
3221	Glass containers.....	98	99	85	1	49,410	195,944	44,076	87,672	166,107	377,161
3229	Pressed and blown glass, n.e.c.....	98	96	287	171	41,924	158,623	35,006	66,673	121,776	297,221
3231	Products of purchased glass.....	97	75	859	580	21,614	87,529	18,203	36,377	68,285	192,644
3241	Cement, hydraulic.....	99	100	162	...	39,769	167,659	34,036	70,839	134,777	528,920
325	Structural clay products.....	97	99	1,053	375	72,814	267,165	63,565	129,764	213,839	425,356
3251	Brick and hollow tile.....	96	98	610	201	32,426	114,740	28,751	61,048	93,114	183,312
3253	Floor and wall tile.....	91	99	49	16	11,265	43,488	9,627	19,706	33,718	70,606
3254	Sewer pipe.....	88	92	66	2	9,637	35,446	8,686	17,171	29,615	55,293
3255	Clay refractories.....	92	95	177	27	14,463	55,604	12,204	22,783	43,006	88,753
3259	Structural clay products, n.e.c.....	89	72	151	129	5,022	17,887	4,296	9,054	14,385	27,391
326	Pottery and related products.....	98	95	867	713	50,934	173,562	44,762	82,229	139,277	260,062
3261	Vitreous plumbing fixtures.....	99	99	37	3	9,200	40,541	7,785	15,676	32,987	76,740
3262	Vitreous-china food utensils.....	95	96	34	11	8,704	28,161	7,693	14,061	22,622	36,184
3263	Earthenware food utensils.....	98	92	47	15	13,335	38,742	12,333	19,467	32,468	49,751
3264	Porcelain electrical supplies.....	94	87	45	9	9,550	37,679	7,990	15,847	28,629	54,675
3265	China decorating for the trade.....	100	100	50	48	497	1,304	437	864	1,033	2,148
3269	Pottery products, n.e.c.....	95	90	654	627	9,647	27,134	8,521	16,313	21,536	40,562
327	Concrete and plaster products.....	96	98	5,410	4,615	89,610	340,287	70,328	149,022	241,437	705,513
3271	Concrete products.....	99	99	5,090	4,503	60,410	216,954	46,659	96,707	146,075	396,344
3272	Gypsum products.....	95	98	90	25	10,966	48,639	9,278	21,927	39,715	161,898
3274	Lime.....	84	97	145	71	7,989	30,645	6,835	14,456	24,454	57,383
3275	Mineral wool.....	95	93	85	16	10,244	44,049	7,555	15,931	31,191	89,887
3281	Cut-stone and stone products.....	93	99	977	741	21,576	78,240	18,410	36,721	60,650	119,765
329	Nonmetallic mineral products, n.e.c.....	94	89	1,430	647	79,598	336,563	62,253	123,367	234,912	662,699
3291	Abrasive products.....	94	87	312	120	22,345	101,218	15,756	30,417	62,040	191,850
3292	Asbestos products.....	87	93	110	13	21,977	92,413	17,760	35,985	70,319	179,864
3293	Gaskets and asbestos insulations.....	86	70	237	99	12,807	55,115	10,128	20,340	37,241	84,485
3295	Minerals: ground or treated.....	98	87	353	106	7,699	32,404	6,401	13,784	24,312	89,725
3297	Nonclay refractories.....	96	90	77	7	8,559	34,260	7,150	12,890	26,124	78,071
3298	Statuary and art goods.....	89	99	220	258	1,726	5,315	1,450	2,822	3,932	8,332
3299	Nonmetallic mineral products, n.e.c.....	84	94	121	44	4,483	15,835	3,605	7,126	10,943	30,340
33	Primary metal industries.....	(NA)	(NA)	5,838	2,402	1,117,059	5,097,466	938,511	1,812,027	3,985,548	9,372,910
331	Blast furnaces and steel mills.....	96	92	320	1	530,051	2,469,967	449,800	843,684	1,969,629	4,755,233
3312	Steel works and rolling mills.....	¹⁰ 94	¹⁰ 85	289	...	518,690	2,418,635	440,966	826,070	1,932,734	4,640,515
3313	Electrometallurgical products.....	¹⁰ 92	95	31	1	11,361	51,332	8,834	17,614	36,895	114,718
332	Iron and steel foundries.....	94	90	1,734	646	212,365	895,728	184,149	354,224	716,414	1,339,270
3321	Gray-iron foundries.....	94	87	1,414	610	133,914	557,535	118,288	230,234	459,049	846,271
3322	Malleable-iron foundries.....	86	89	81	1	23,378	96,888	20,205	38,306	78,004	135,175
3323	Steel foundries.....	88	87	239	35	55,073	241,305	45,655	85,684	179,361	357,824

See footnotes at end of table.

BY INDUSTRY GROUPS AND INDUSTRIES: 1954 AND 1947—Continued

For definitions of industries, see Appendix A—Industry Descriptions)

1954—Continued		1947													Code
Value of shipments	Capital expenditures, new ⁵	Primary products specialization ratio ¹	Coverage ratio ²	Establishments	Proprietors and firm members	All employees		Production workers			Value added by manufacture, unadjusted ⁴	Value of shipments	Capital expenditures, new ⁵		
						Number ³	Payroll	Number ³	Man-hours	Wages					
(\$1,000)	(\$1,000)			(Number)	(Number)		(\$1,000)		(1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)		
(⁶)	28,053	(NA)	(NA)	5,308	3,496	383,264	873,746	348,615	677,001	725,308	1,533,028	(⁶)	31,301	31	
706,174	7,123	100	100	561	230	53,261	156,632	48,686	101,101	130,700	403,831	1,070,267	10,565	3111	
62,165	1,955	91	98	183	97	5,032	13,441	4,015	8,285	9,667	28,375	57,403	1,320	3121	
246,373	3,063	99	97	606	417	22,077	47,793	19,706	38,145	38,468	87,301	294,309	1,921	3131	
(⁶)	12,084	(NA)	(NA)	1,500	466	240,315	516,879	220,654	419,652	438,894	785,543	(⁶)	13,344	314	
1,790,717	11,420	99	100	1,292	349	230,882	496,990	212,213	403,731	423,181	751,528	1,726,609	12,587	3141	
90,466	(NA)	93	83	208	117	9,433	19,889	8,441	15,921	15,713	34,015	67,388	757	3142	
(⁶)	122	91	91	341	363	11,577	20,798	10,491	18,222	17,091	32,088	(⁶)	528	315	
28,430	(¹³)	94	95	250	288	8,857	15,641	8,047	13,486	12,958	23,678	46,829	302	3151	
17,771	(¹³)	82	82	91	75	2,720	5,157	2,444	4,736	4,133	8,410	16,609	226	3152	
168,902	1,868	94	97	591	562	16,002	41,055	13,852	27,684	30,981	67,662	132,868	1,842	3161	
(⁶)	1,495	97	95	982	842	25,984	57,266	23,310	48,009	44,298	96,532	(⁶)	1,113	317	
188,782	972	99	97	736	601	20,378	45,664	18,468	38,876	36,168	77,042	163,306	799	3171	
57,256	522	90	90	246	241	5,606	11,602	4,842	9,133	8,130	19,490	37,649	314	3172	
(⁶)	340	(NA)	(NA)	544	519	9,016	19,882	7,901	15,903	15,209	31,696	(⁶)	668	319	
10,842	(¹³)	86	92	140	111	2,861	6,294	2,501	5,117	5,021	9,437	20,459	194	3192	
39,970	(¹³)	90	80	404	408	6,155	13,588	5,400	10,786	10,188	22,259	40,935	474	3199	
(⁶)	300,647	(NA)	(NA)	11,643	10,323	461,037	1,206,903	404,930	838,320	991,966	2,298,521	(⁶)	285,066	32	
370,503	30,964	99	75	32	...	25,268	77,940	22,563	43,619	67,861	158,746	223,715	11,618	3211	
(⁶)	37,417	(NA)	(NA)	213	62	89,302	230,287	79,417	162,779	193,954	421,518	(⁶)	49,096	322	
635,121	26,542	(D)	(D)	87	8	47,132	126,503	41,943	87,530	107,101	252,069	422,614	32,775	3221	
411,322	10,875	96	91	126	54	42,170	103,784	37,474	75,249	86,853	169,449	234,795	16,321	3229	
372,383	5,590	97	85	1,048	840	23,920	61,508	20,748	41,584	48,449	129,857	214,873	6,398	3231	
811,125	73,015	100	100	155	1	35,662	98,626	30,639	66,341	79,861	247,936	408,928	42,488	3241	
(⁶)	31,561	(NA)	(NA)	1,109	514	69,258	169,153	62,676	131,210	144,019	280,320	(⁶)	27,632	325	
250,411	16,233	95	97	674	328	29,617	69,399	27,002	58,367	59,876	110,867	144,497	13,266	3251	
97,334	4,579	97	95	37	18	6,828	16,335	6,250	13,088	13,774	31,238	40,966	2,277	3253	
73,930	3,118	83	92	69	6	9,105	22,421	8,310	17,013	19,552	38,362	47,854	4,183	3254	
136,369	5,702	93	94	168	19	17,963	47,048	15,937	31,810	38,663	75,982	109,260	5,875	3255	
36,400	1,928	83	70	161	143	5,745	13,950	5,177	10,932	12,154	23,871	28,814	2,031	3259	
(⁶)	10,634	(NA)	(NA)	742	654	58,006	146,962	53,376	107,064	126,677	224,792	(⁶)	15,940	326	
116,267	1,061	98	99	33	4	7,831	24,615	6,996	14,591	21,187	45,677	68,093	2,850	3261	
44,478	1,333	97	97	27	14	11,100	26,849	10,326	20,228	23,530	35,228	43,196	2,692	3262	
66,421	528	92	97	76	53	16,747	42,091	15,742	29,733	37,175	54,837	72,054	4,784	3263	
77,896	5,357	89	93	50	12	11,547	30,463	10,447	21,553	25,454	52,832	71,484	2,904	3264	
3,779	(¹³)	100	98	65	52	1,048	2,471	875	1,811	1,679	5,143	8,377	82	3265	
55,333	2,321	95	83	491	519	9,733	20,473	8,990	19,148	17,652	31,075	39,927	2,628	3269	
(⁶)	61,680	(NA)	(NA)	6,494	7,001	70,176	169,559	61,572	134,302	140,032	346,761	(⁶)	84,014	327	
736,273	40,548	99	99	6,158	6,899	46,821	106,484	41,537	89,031	88,471	202,789	329,734	35,692	3271	
282,177	10,227	97	98	73	7	7,472	21,384	6,543	15,552	17,911	67,879	127,543	24,386	3272	
109,226	4,835	93	97	172	59	7,009	18,767	6,129	14,200	15,516	39,253	72,842	10,745	3274	
156,907	6,068	(D)	(D)	91	36	8,874	22,924	7,363	15,519	18,134	36,840	73,131	13,191	3275	
181,784	4,296	100	98	640	581	9,880	25,922	8,312	17,257	20,605	45,940	67,253	2,274	3281	
(⁶)	45,488	(NA)	(NA)	1,210	670	79,565	226,946	65,627	134,164	170,508	442,651	(⁶)	45,606	329	
332,512	9,857	94	86	254	127	21,042	67,114	16,068	31,683	45,674	127,954	225,399	11,820	3291	
346,206	14,935	87	90	112	24	21,595	60,529	18,255	37,731	47,761	113,305	206,167	12,960	3292	
153,402	4,954	83	75	193	73	13,178	36,667	10,923	22,182	27,476	66,568	120,093	3,966	3293	
149,357	10,226	94	88	217	46	8,873	24,126	7,417	16,180	18,356	55,556	90,199	8,780	3295	
131,097	3,739	94	91	63	4	10,273	27,783	8,951	17,626	22,963	58,022	90,337	5,771	3297	
11,774	(¹³)	91	97	272	359	2,025	4,268	1,829	3,640	3,534	7,391	9,998	138	3298	
55,314	1,574	86	76	99	37	2,579	6,459	2,184	4,422	4,744	13,855	25,942	2,170	3299	
(⁶)	831,095	(NA)	(NA)	5,364	2,893	1,158,158	3,601,791	1,012,008	2,053,663	2,982,736	5,733,028	(⁶)	592,177	33	
(⁶)	523,543	(NA)	(NA)	318	4	545,724	1,732,428	478,652	953,778	1,454,160	2,657,075	(⁶)	368,365	331	
(⁶)	501,230	(¹⁰)	(¹⁰)	299	4	536,096	1,703,143	470,477	937,100	1,430,711	2,601,582	(⁶)	363,070	3312	
271,767	22,313	1088	95	19	...	9,628	29,285	8,175	16,678	23,449	55,493	150,904	5,295	3313	
(⁶)	76,332	(NA)	(NA)	1,936	939	266,010	789,717	238,261	490,942	669,502	1,117,403	(⁶)	75,745	332	
1,418,947	49,939	92	87	1,655	904	173,813	512,245	157,395	328,537	441,716	732,807	1,173,039	54,001	3321	
212,354	9,966	88	91	78	1	29,862	90,811	26,659	54,650	76,750	121,661	184,400	8,184	3322	
534,718	16,426	89	83	203	34	62,335	186,661	54,207	107,755	151,036	262,935	403,175	13,464	3323	

GENERAL SUMMARY

Table 2A.—GENERAL STATISTICS FOR OPERATING MANUFACTURING ESTABLISHMENTS
(For explanation of column captions see Introduction.)

Code	Industry group and industry	1954									Value added by manu- facture, unadjusted ⁴
		Pri- mary prod- ucts spe- ciali- zation ratio ¹	Cover- age ratio ²	Estab- lish- ments (Number)	Pro- pri- etors and firm mem- bers (Number)	All employees		Production workers			
						Number ³	Payroll (\$1,000)	Number ³	Man-hours (1,000)	Wages (\$1,000)	
	Primary metal industries—Continued										
333	Primary nonferrous metals.....	91	94	104	12	54,497	244,634	44,884	90,386	191,756	614,159
3331	Primary copper.....	(10)	(10)	27	...	13,818	59,783	11,705	23,596	48,442	156,981
3332	Primary lead.....	(10)	(10)	13	...	4,063	17,393	3,312	6,659	13,142	30,771
3333	Primary zinc.....	87	91	21	...	10,470	44,042	8,638	16,546	34,104	87,501
3334	Primary aluminum.....	100	99	16	...	20,626	96,813	16,982	35,335	77,174	264,201
3339	Primary nonferrous metals, n.e.c.....	89	50	27	12	5,519	26,601	4,246	8,249	18,892	74,703
3341	Secondary nonferrous metals.....	93	64	360	147	15,775	71,707	12,204	25,121	46,711	142,329
335	Nonferrous rolling and drawing.....	96	92	281	36	89,090	410,320	71,527	144,596	305,336	860,228
3351	Copper rolling and drawing.....	95	90	89	7	41,906	195,225	34,072	68,017	147,874	420,604
3352	Aluminum rolling and drawing.....	92	93	94	17	36,803	164,938	29,795	60,652	125,617	339,717
3359	Nonferrous rolling and drawing, n.e.c.....	94	84	98	12	10,381	50,157	7,660	15,926	31,844	99,907
3361	Nonferrous foundries.....	90	92	1,920	1,225	73,487	327,906	61,573	124,041	251,374	476,969
339	Primary metal industries, n.e.c.....	94	35	1,119	335	141,790	677,201	114,370	229,972	504,324	1,184,721
3391	Iron and steel forgings.....	88	73	259	78	39,771	201,938	33,012	65,120	155,311	304,258
3392	Wire drawing.....	95	1039	198	31	54,873	250,558	43,246	87,182	182,385	465,654
3393	Welded and heavy-riveted pipe.....	91	1030	88	14	22,085	108,374	18,388	37,473	83,472	204,325
3399	Primary metal industries, n.e.c.....	92	1020	574	212	25,060	116,330	19,723	40,195	83,154	210,482
34	Fabricated metal products.....	(NA)	(NA)	22,516	13,908	1,019,406	4,397,337	821,172	1,652,366	3,174,186	7,596,275
3411	Tin cans and other tinware.....	98	99	227	37	55,234	245,134	48,008	97,574	202,112	482,297
342	Cutlery, hand tools, and hardware.....	87	90	1,930	1,019	143,676	599,952	117,796	235,874	444,178	1,044,425
3421	Cutlery.....	88	96	182	91	15,102	56,062	12,362	24,578	39,609	122,357
3422	Edge tools.....	83	76	247	149	7,108	29,174	5,917	11,614	21,428	48,027
3423	Hand tools, n.e.c.....	86	83	503	267	23,385	93,426	18,814	36,655	66,701	162,051
3424	Files.....	98	93	30	14	2,904	11,538	2,667	4,784	10,141	19,163
3425	Hand-saws and saw blades.....	71	90	99	45	6,879	29,287	5,327	10,320	19,927	53,246
3429	Hardware, n.e.c.....	86	90	869	453	88,296	380,464	72,708	147,920	286,371	639,578
343	Heating and plumbing equipment.....	85	86	1,220	444	105,888	451,342	82,806	162,498	316,577	828,467
3431	Plumbing fixtures and fittings.....	87	89	321	141	30,612	132,070	25,675	50,706	102,346	240,944
3439	Heating and cooking apparatus, n.e.c.....	84	85	899	303	75,276	319,272	57,131	111,792	214,231	587,523
344	Structural metal products.....	92	91	7,421	4,671	284,121	1,280,903	216,909	440,025	873,919	2,203,635
3441	Structural and ornamental products.....	89	88	2,917	1,943	116,274	527,386	88,065	179,901	352,662	909,782
3442	Metal doors, sash, and trim.....	87	89	1,106	491	43,284	184,174	33,028	66,490	125,317	334,956
3443	Boiler shop products.....	82	81	977	472	74,373	342,069	57,217	115,994	239,967	578,568
3444	Sheet-metal work.....	81	80	2,421	1,765	50,190	227,272	38,597	77,639	155,971	380,327
346	Metal stamping and coating.....	85	(NA)	5,553	3,760	183,844	777,393	154,010	309,364	579,935	1,245,074
3461	Vitreous-enameled products.....	72	65	51	11	7,272	25,366	6,040	11,089	19,270	36,618
3463	Metal stampings.....	82	83	2,269	1,144	128,200	569,467	106,298	214,598	421,482	923,939
3465	Enameling and lacquering.....	(10)	(10)	380	269	5,503	19,134	4,735	9,074	14,426	29,992
3466	Galvanizing.....	(10)	(10)	133	79	3,178	12,561	2,685	5,604	9,232	19,945
3467	Engraving on metal.....	(10)	(10)	269	231	3,624	13,930	3,030	6,119	10,081	20,508
3468	Plating and polishing.....	(10)	(10)	2,451	2,026	36,066	136,933	31,221	62,878	105,443	214,070
3471	Lighting fixtures.....	90	91	1,228	719	45,078	181,951	36,361	73,660	128,759	323,711
348	Fabricated wire products.....	89	1057	1,352	816	62,630	254,324	52,391	104,105	189,385	430,815
3481	Nails and spikes.....	89	1019	77	18	2,701	10,420	2,324	4,776	7,550	18,447
3489	Wirework, n.e.c.....	89	1063	1,275	798	59,929	243,904	50,067	99,329	181,835	412,368
349	Metal products, n.e.c.....	91	81	3,585	2,442	138,930	606,334	112,888	229,264	439,318	1,037,849
3491	Metal barrels, drums, and pails.....	82	86	93	12	10,585	48,501	8,687	17,924	37,058	85,865
3492	Safes and vaults.....	87	97	26	16	3,442	15,030	2,581	5,050	10,341	28,974
3493	Steel springs.....	84	74	101	58	7,078	33,304	5,650	11,429	24,510	50,152
3494	Bolts, nuts, washers, and rivets.....	91	89	457	184	53,729	246,235	42,309	86,427	173,019	411,662
3495	Screw machine products.....	93	82	1,795	1,421	35,009	151,444	29,694	61,030	112,641	246,886
3496	Collapsible tubes.....	93	100	21	7	4,302	14,934	3,856	7,643	11,783	22,239
3497	Metal foil.....	92	80	66	23	6,713	28,693	5,550	11,529	21,981	62,604
3499	Fabricated metal products, n.e.c.....	85	53	1,026	721	18,069	68,191	14,556	28,228	47,982	129,464
35	Machinery except electrical.....	(NA)	(NA)	25,601	16,558	1,541,675	7,190,563	1,171,323	2,369,610	4,979,972	12,338,923
351	Engines and turbines.....	88	84	141	29	81,955	399,986	60,656	121,960	278,347	690,131
3511	Steam engines and turbines.....	88	87	22	1	30,178	158,861	21,382	44,821	109,650	295,367
3519	Internal combustion engines.....	87	83	119	28	51,777	241,125	39,273	77,139	168,696	394,763
352	Tractors and farm machinery.....	87	92	1,360	846	139,118	602,151	105,514	205,067	423,692	1,050,370
3521	Tractors.....	85	93	154	63	64,742	287,118	49,543	95,261	205,993	516,484
3522	Farm machinery (except tractors).....	89	90	1,206	783	74,376	315,033	55,971	109,806	217,698	533,886
353	Construction and mining machinery.....	87	85	971	375	109,385	509,501	79,706	160,371	327,957	901,408
3531	Construction and mining machinery.....	86	81	626	220	75,698	347,698	55,563	110,794	225,637	582,670
3532	Oilfield machinery and tools.....	89	93	345	155	33,687	161,802	24,143	49,577	102,320	318,737

See footnotes at end of table.

BY INDUSTRY GROUPS AND INDUSTRIES: 1954 AND 1947—Continued

For definitions of industries, see Appendix A—Industry Descriptions)

1954—Continued		1947												Code
Value of shipments	Capital expenditures, new ⁵	Primary products specialization ratio ¹	Coverage ratio ²	Establishments	Pro-prietors and firm members	All employees		Production workers			Value added by manufacture, unadjusted ⁴	Value of shipments	Capital expenditures, new ⁵	
						Number ³	Payroll	Number ³	Man-hours	Wages				
(\$1,000)	(\$1,000)			(Number)	(Number)		(\$1,000)		(1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)
(⁶)	58,107	(NA)	(NA)	89	4	43,117	127,705	37,635	80,994	107,776	284,695	(⁶)	17,306	333
(⁶)	4,234	(¹⁰)	(¹⁰)	27	...	14,629	44,790	13,065	29,751	38,967	93,196	(⁶)	4,176	3331
(⁶)	1,404	(¹⁰)	(¹⁰)	16	...	4,663	14,082	4,022	8,879	11,610	35,902	(⁶)	2,649	3332
230,515	5,276	(NA)	100	20	...	12,424	35,476	11,088	22,232	30,475	77,068	190,996	6,739	3333
604,076	26,073	(NA)	100	11	...	8,919	26,398	7,336	16,014	20,930	65,262	161,010	2,791	3334
233,648	21,119	(NA)	100	15	4	2,482	6,959	2,124	4,118	5,794	13,267	24,253	951	3339
724,643	9,553	(NA)	(NA)	321	158	18,089	55,897	14,511	31,023	38,561	119,153	721,956	7,225	3341
(⁶)	63,188	(NA)	(NA)	162	11	88,824	264,117	74,796	151,518	209,657	503,363	(⁶)	33,828	335
1,320,608	30,540	(NA)	92	79	5	53,891	166,148	45,946	93,741	134,019	302,687	1,064,033	21,617	3351
874,408	21,402	(NA)	96	29	2	27,365	73,665	22,786	45,334	57,544	150,697	404,766	9,897	3352
300,715	11,246	(NA)	94	54	4	7,568	24,304	6,064	12,443	18,094	49,979	192,715	2,314	3359
873,790	24,779	93	92	1,725	1,431	66,798	203,314	58,609	119,141	166,697	300,628	573,190	19,017	3361
(⁶)	75,590	(NA)	(NA)	813	346	129,596	428,613	109,544	226,267	336,383	750,711	(⁶)	70,691	339
595,434	15,862	95	77	250	92	36,724	128,198	32,384	66,469	105,776	197,111	370,097	9,230	3391
1,266,436	35,729	96	10 ³⁷	134	32	55,026	175,514	45,565	94,772	136,597	314,602	912,891	43,893	3392
525,788	9,134	92	10 ²⁶	52	10	15,711	52,651	13,517	26,906	41,225	100,356	244,214	5,760	3393
538,576	14,864	94	10 ²⁶	377	212	22,135	72,250	18,078	38,120	52,785	138,642	339,663	11,808	3399
(⁶)	432,491	(NA)	(NA)	16,777	12,348	973,174	2,833,684	823,012	1,694,666	2,189,032	4,920,304	(⁶)	304,822	34
1,366,766	50,093	97	99	215	24	46,760	126,941	40,779	84,715	105,394	231,503	678,924	20,183	3411
(⁶)	60,796	(NA)	(NA)	1,866	1,245	154,507	433,483	131,992	273,008	340,049	729,209	(⁶)	39,288	342
169,750	2,393	93	94	195	125	20,248	54,142	17,579	37,219	42,530	104,833	142,571	5,774	3421
69,721	1,611	81	76	237	166	8,540	23,725	7,428	15,173	18,843	39,177	60,425	2,567	3422
256,991	7,047	81	85	578	410	35,359	102,245	29,910	62,554	78,448	172,564	269,415	8,653	3423
27,314	725	94	93	37	19	4,446	11,213	4,084	7,882	9,714	19,149	24,493	1,113	3424
83,682	1,582	78	87	89	43	8,441	25,600	7,380	15,543	20,872	42,975	70,430	4,033	3425
1,111,529	47,436	89	91	730	482	77,473	216,558	65,611	134,637	169,642	350,511	586,010	17,148	3429
(⁶)	35,949	(NA)	(NA)	1,277	569	151,565	441,192	127,325	261,035	340,863	792,756	(⁶)	57,824	343
443,260	12,286	90	92	279	146	34,748	98,316	30,698	62,414	81,849	159,081	298,545	9,839	3431
1,146,608	23,663	86	86	998	423	116,817	342,876	96,627	198,621	259,014	633,675	1,241,573	47,985	3439
(⁶)	102,197	(NA)	(NA)	4,547	3,304	213,020	657,799	171,968	359,354	483,258	1,141,417	(⁶)	63,583	344
1,809,971	37,768	86	88	1,665	1,170	79,077	246,766	63,786	134,889	178,470	435,952	855,101	21,850	3441
638,501	22,097	84	87	364	193	23,336	72,176	19,100	40,347	53,630	129,366	232,768	6,668	3442
1,133,670	23,561	80	80	812	523	68,232	207,118	54,185	111,259	151,698	351,139	686,687	21,908	3443
738,481	18,770	83	82	1,706	1,418	42,375	131,739	34,897	72,859	99,460	224,960	420,525	13,157	3444
(⁶)	55,562	(NA)	(NA)	4,440	3,859	184,020	524,760	160,893	325,955	417,664	866,562	(⁶)	56,286	346
65,523	1,222	75	67	47	7	11,560	26,165	10,487	19,946	21,237	42,338	68,796	2,977	3461
1,727,544	38,068	86	81	1,985	1,332	133,401	392,474	115,238	234,088	307,904	648,891	1,177,396	44,846	3463
45,090	1,371	(¹⁰)	(¹⁰)	261	248	4,025	10,188	3,653	7,395	8,653	16,638	23,868	965	3465
31,681	1,193	(¹⁰)	(¹⁰)	123	98	2,916	8,231	2,581	5,405	6,203	14,356	26,065	681	3466
27,365	845	(¹⁰)	(¹⁰)	220	231	3,492	10,199	2,983	6,244	8,279	16,449	20,876	680	3467
304,352	12,862	(¹⁰)	(¹⁰)	1,804	1,943	28,626	77,503	25,951	52,877	65,388	127,890	180,676	6,137	3468
641,569	14,217	90	89	1,202	802	46,891	131,279	39,393	79,598	96,291	239,191	465,422	9,797	3471
(⁶)	18,112	(NA)	(NA)	978	689	60,344	170,631	52,271	106,380	135,622	281,499	(⁶)	16,426	348
33,778	610	82	10 ¹⁸	67	27	3,371	8,872	2,900	5,890	6,886	14,533	26,576	886	3481
744,766	17,502	91	10 ⁶⁰	911	662	56,973	161,759	49,371	100,490	128,736	266,966	465,973	15,540	3489
(⁶)	95,561	(NA)	(NA)	2,252	1,856	116,067	347,599	98,391	204,621	269,891	638,167	(⁶)	41,435	349
217,239	5,860	83	83	71	7	10,927	31,368	9,341	18,483	24,955	64,186	173,272	3,607	3491
40,029	714	98	98	26	16	3,754	10,117	3,004	6,035	7,437	19,434	29,216	580	3492
115,692	36,127	89	68	81	23	7,760	24,938	6,747	14,135	20,233	45,876	92,646	2,285	3493
699,523	26,090	92	86	364	199	49,235	151,514	40,908	85,895	115,790	285,451	463,752	18,263	3494
401,449	11,886	94	86	1,209	1,242	28,623	87,292	24,859	52,461	69,235	144,791	222,015	10,800	3495
36,893	1,369	91	100	19	4	3,866	9,415	3,475	6,886	7,205	16,942	26,997	1,477	3496
180,737	5,423	97	76	44	29	4,269	11,765	3,680	7,438	9,277	21,520	54,748	2,395	3497
237,815	8,088	90	60	438	336	7,633	21,190	6,377	13,288	15,759	39,567	73,205	2,028	3499
(⁶)	713,808	(NA)	(NA)	17,910	13,159	1,552,135	4,830,125	1,248,921	2,591,220	3,610,392	7,833,970	(⁶)	517,589	35
(⁶)	40,052	(NA)	(NA)	149	31	87,688	280,424	67,127	134,502	202,483	384,995	(⁶)	36,580	351
450,041	18,411	82	81	18	2	22,173	73,550	15,736	32,039	50,633	83,557	135,439	12,879	3511
891,027	21,640	81	78	131	29	65,515	206,874	51,391	102,463	151,850	301,438	619,998	23,701	3519
(⁶)	76,176	(NA)	(NA)	1,102	774	171,461	494,724	139,650	284,547	381,653	753,913	(⁶)	106,078	352
1,177,974	51,528	83	95	94	44	77,317	227,767	62,926	125,699	177,966	332,062	890,841	64,017	3521
1,095,685	24,648	89	92	1,008	730	94,144	266,957	76,724	158,848	203,687	421,851	889,037	42,061	3522
(⁶)	43,481	(NA)	(NA)	747	324	113,871	355,367	88,905	188,357	255,047	641,397	(⁶)	33,474	353
1,132,333	25,292	85	82	517	206	84,694	263,835	66,196	140,847	189,964	470,132	926,712	22,179	3531
513,383	18,188	88	91	230	118	29,177	91,532	22,709	47,510	65,083	171,265	288,853	11,295	3532

GENERAL SUMMARY

Table 2A.—GENERAL STATISTICS FOR OPERATING MANUFACTURING ESTABLISHMENTS

(For explanation of column captions see Introduction.)

Code	Industry group and industry	1954									
		Primary products specialization ratio ¹	Coverage ratio ²	Establishments (Number)	Proprietors and firm members (Number)	All employees		Production workers			Value added by manufacture, unadjusted ⁴ (\$1,000)
						Number ³	Payroll (\$1,000)	Number ³	Man-hours (1,000)	Wages (\$1,000)	
354	Machinery, except electrical—Con.	92	87	6,539	4,757	262,724	1,396,917	206,327	442,373	1,018,262	2,350,111
3541	Metalworking machinery.....	84	93	639	347	80,959	432,290	62,106	133,247	302,682	788,219
3542	Machine tools.....	85	85	501	197	59,468	293,799	44,277	92,342	202,459	513,279
3544	Metalworking machinery.....	86	69	4,377	3,499	77,418	458,162	65,475	146,912	366,265	697,004
3545	Special dies and tools.....	87	74	1,022	714	44,877	212,665	34,467	69,871	146,854	351,607
355	Metalworking machinery attachments.....	87	74	1,022	714	44,877	212,665	34,467	69,871	146,854	351,607
355	Special-industry machinery, n.e.c.....	87	85	2,900	1,350	165,746	754,533	122,581	248,598	498,197	1,214,836
3551	Food-products machinery.....	84	86	672	302	33,205	152,518	23,717	49,009	98,570	256,240
3552	Textile machinery.....	89	93	535	252	36,595	145,253	28,093	55,733	98,668	217,560
3553	Woodworking machinery.....	84	81	249	128	11,973	53,821	8,839	17,771	35,224	101,721
3554	Paper-industries machinery.....	85	86	169	53	15,003	73,713	11,516	23,745	50,057	112,565
3555	Printing-trades machinery.....	95	90	358	164	21,960	110,679	16,416	33,027	74,515	173,805
3559	Special-industry machinery, n.e.c.....	81	73	917	451	47,007	218,553	33,997	69,310	141,160	352,943
356	General industrial machinery.....	85	81	2,604	1,019	223,917	1,046,942	156,896	317,117	652,776	1,859,054
3561	Pumps and compressors.....	82	78	496	183	60,324	272,632	41,269	82,859	168,613	498,011
3562	Elevators and escalators.....	87	89	131	48	10,257	49,518	7,017	14,164	31,766	102,106
3563	Conveyors.....	77	80	389	154	32,370	161,414	22,265	46,039	95,786	286,919
3564	Blowers and fans.....	83	76	214	87	18,125	80,850	13,724	27,349	54,033	151,272
3565	Industrial trucks and tractors.....	88	83	245	121	15,797	71,824	11,061	22,123	44,813	123,044
3566	Power-transmission equipment.....	88	86	471	176	49,580	231,636	37,903	76,209	160,037	393,984
3567	Industrial furnaces and ovens.....	84	84	167	65	8,415	42,351	5,050	10,403	20,975	81,399
3568	Mechanical stokers.....	74	60	25	11	1,118	5,138	766	1,453	2,820	8,976
3569	General industrial machinery, n.e.c....	80	66	466	174	27,927	131,575	17,837	36,513	73,929	213,340
357	Office and store machines.....	80	96	409	121	101,294	455,643	81,631	160,582	336,831	773,881
3571	Computing and related machines.....	78	93	84	32	56,692	275,809	45,014	88,484	200,953	412,048
3572	Typewriters.....	80	97	18	2	18,435	67,399	16,699	32,589	60,075	131,306
3576	Scales and balances.....	90	96	73	30	5,381	21,276	4,074	7,636	14,163	44,347
3579	Office and store machines, n.e.c.....	79	90	229	57	20,785	91,159	15,843	31,871	61,639	186,479
358	Service and household machines.....	85	90	1,137	395	196,534	875,046	148,983	294,009	600,548	1,589,044
3581	Domestic laundry equipment.....	93	81	56	8	22,105	98,556	16,710	32,497	68,066	207,395
3582	Laundry and dry-cleaning machinery.....	83	93	104	44	6,543	28,630	4,659	9,509	18,243	54,218
3583	Sewing machines.....	71	94	82	46	12,414	56,552	9,443	19,142	40,697	76,602
3584	Vacuum cleaners.....	80	88	39	15	8,383	38,867	6,408	12,717	26,903	91,850
3585	Refrigeration machinery.....	(10)	(10)	586	189	128,283	567,118	98,921	194,527	396,982	1,006,193
3586	Measuring and dispensing pumps.....	69	91	32	9	8,367	38,531	5,893	11,790	23,658	63,160
3589	Service and household machines, n.e.c..	85	76	238	84	10,437	46,791	6,944	13,825	25,997	89,624
359	Miscellaneous machinery parts.....	90	88	9,540	7,666	260,998	1,149,836	209,026	419,529	843,358	1,910,083
3591	Valves and fittings, except plbg.....	85	86	556	175	75,016	333,213	58,425	115,312	235,730	567,518
3592	Fabricated pipe and fittings.....	92	88	250	108	12,670	62,092	9,943	19,352	43,945	123,028
3593	Ball and roller bearings.....	98	98	102	17	49,720	214,088	39,974	78,233	159,813	335,101
3594	Industrial patterns and molds.....	93	73	1,800	1,725	19,864	98,265	16,900	35,230	77,840	152,049
3599	Machine shops.....	82	86	6,832	5,641	103,727	442,177	83,782	171,400	326,031	732,387
36	Electrical machinery.....	(NA)	(NA)	5,758	1,936	959,126	3,950,994	722,443	1,422,339	2,645,588	7,403,134
361	Electrical industrial apparatus.....	88	91	2,030	644	340,000	1,494,109	250,072	493,743	984,284	2,795,415
3611	Wiring devices and supplies.....	85	86	395	152	43,195	168,474	34,882	68,944	122,166	340,911
3612	Carbon and graphite products.....	98	94	53	13	8,297	35,976	6,352	12,600	24,190	62,873
3613	Electrical measuring instruments.....	75	76	303	98	33,049	145,131	24,223	47,679	90,873	248,478
3614	Motors and generators.....	82	84	309	75	112,003	494,556	82,420	161,343	334,271	844,128
3615	Transformers.....	87	94	164	52	40,956	186,491	29,234	58,414	121,715	410,245
3616	Electrical control apparatus.....	89	91	452	118	79,314	361,398	56,183	111,372	228,245	700,477
3617	Electrical welding apparatus.....	70	92	119	59	8,186	45,719	5,484	11,400	26,427	76,645
3619	Electrical industrial apparatus, n.e.c..	81	64	235	77	14,996	56,361	11,293	21,988	36,394	109,656
3621	Electrical appliances.....	76	74	365	154	48,582	201,827	38,661	75,562	145,587	424,031
3631	Insulated wire and cable.....	96	102	136	24	14,410	59,011	11,579	26,672	42,142	110,317
3641	Engine electrical equipment.....	85	87	169	60	46,349	200,279	37,219	74,147	146,769	339,251
3651	Electric lamps (bulbs).....	94	99	66	7	21,963	78,921	19,172	36,750	63,205	218,137
366	Communication equipment.....	93	96	2,268	715	445,817	1,752,211	333,364	653,130	1,152,459	3,214,097
3661	Radios and related products.....	(10)	(10)	1,753	593	293,998	1,130,378	220,867	435,056	742,732	2,130,207
3662	Electronic tubes.....	97	94	157	22	70,950	254,854	57,856	112,052	186,882	461,904
3663	Phonograph records.....	94	97	143	52	6,152	23,312	4,740	9,451	15,685	57,387
3664	Telephone and telegraph equipment.....	93	96	74	6	64,663	300,589	43,717	84,627	184,124	497,829
3669	Communication equipment, n.e.c.....	37	77	141	42	10,053	43,079	6,184	11,942	23,035	66,769
369	Electrical products, n.e.c.....	95	83	724	332	42,004	164,634	32,373	62,332	111,139	301,883
3691	Storage batteries.....	100	100	308	176	15,670	66,872	11,899	23,244	46,415	127,503
3692	Primary batteries.....	98	98	41	...	10,773	36,633	8,893	16,814	27,427	62,388
3693	X-ray and therapeutic apparatus.....	81	91	130	40	7,054	32,583	4,601	9,036	17,688	51,518
3699	Electrical products, n.e.c.....	89	48	245	116	8,506	28,545	6,979	13,236	19,608	60,472

See footnotes at end of table.

GENERAL SUMMARY

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BY INDUSTRY GROUPS AND INDUSTRIES: 1954 AND 1947—Continued

For definitions of industries, see Appendix A—Industry Descriptions)

1954—Continued		1947												Code
Value of shipments	Capital expenditures, new ²	Primary products specialization ratio ¹	Coverage ratio ²	Establishments	Proprietors and firm members	All employees		Production workers			Value added by manufacture, unadjusted ⁴	Value of shipments	Capital expenditures, new ⁵	
						Number ³	Payroll	Number ³	Man-hours	Wages				
(\$1,000)	(\$1,000)						(\$1,000)		(1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	
(⁶)	141,823	(NA)	(NA)	4,296	3,780	220,902	754,164	178,395	373,816	563,716	1,148,035	(⁶)	51,342	354
1,146,932	37,683	77	86	315	139	70,001	233,997	54,435	112,562	165,003	343,198	493,853	13,836	3541
839,899	20,941	87	87	428	194	54,988	182,068	43,568	92,108	132,810	302,842	520,182	11,621	3542
931,542	66,600	(10)	(10)	3,553	3,447	95,913	338,099	80,392	169,146	265,903	501,995	661,329	25,885	13544
476,704	16,598													13545
(⁶)	45,722	(NA)	(NA)	3,067	3,107	207,321	652,983	165,543	357,894	483,226	1,053,544	(⁶)	61,313	355
404,261	7,571	89	82	623	360	36,927	113,823	28,894	62,263	82,246	191,758	327,681	12,323	3551
336,785	8,528	95	93	489	255	53,583	158,446	45,393	98,607	126,142	256,436	403,385	13,692	3552
167,160	4,329	78	77	294	173	16,233	50,488	13,018	27,971	36,383	90,841	152,881	4,403	3553
196,635	4,916	85	89	149	57	17,088	57,749	13,398	29,782	41,523	81,358	151,085	6,114	3554
248,719	6,634	95	94	327	192	24,880	84,750	19,684	42,995	62,919	138,915	199,362	4,860	3555
580,515	13,742	80	78	1,185	2,070	58,610	187,727	45,156	96,276	134,013	294,236	483,275	19,921	3559
(⁶)	81,903	(NA)	(NA)	2,193	1,100	218,983	696,072	165,368	344,803	476,430	1,199,366	(⁶)	56,556	356
890,873	18,015	81	85	448	206	56,142	172,857	41,413	88,465	119,763	291,658	571,213	14,631	3561
161,024	1,429	92	91	111	56	10,227	33,998	7,317	15,331	22,890	68,614	101,815	1,855	3562
479,224	10,519	78	80	253	136	24,578	84,084	18,073	37,865	55,024	143,515	248,407	5,703	3563
261,825	5,873	75	78	192	98	14,794	44,202	11,087	23,389	30,329	84,429	140,716	3,551	3564
245,110	7,088	84	84	196	121	13,926	41,908	10,603	22,360	29,530	81,517	162,151	5,463	3565
603,633	14,964	87	84	416	209	53,995	172,466	43,739	89,127	123,823	282,004	428,868	14,620	3566
160,132	1,902	86	74	109	36	6,362	21,784	4,058	8,449	11,908	39,092	75,488	1,330	3567
13,774	(13)	71	74	46	20	4,111	12,371	3,118	6,062	8,886	22,212	38,834	1,313	3568
370,499	21,883	78	75	422	218	34,848	112,402	25,960	53,755	74,277	186,325	320,249	8,090	3569
(⁶)	42,067	(NA)	(NA)	356	125	97,824	304,060	83,851	175,541	246,021	501,289	(⁶)	37,104	357
614,265	31,571	94	94	51	21	45,611	152,678	39,770	84,168	127,569	227,245	287,639	22,295	3571
173,439	2,789	90	1097	28	6	26,604	73,177	23,838	50,520	63,509	121,385	153,924	8,862	3572
64,182	1,103	91	92	75	33	6,526	18,849	4,874	10,041	12,847	34,766	54,542	1,457	3576
276,437	6,603	89	90	202	65	19,083	59,356	15,369	30,812	42,096	117,893	177,819	4,490	3579
(⁶)	138,546	(NA)	(NA)	1,087	521	219,566	658,058	180,128	366,971	502,545	1,095,745	(⁶)	75,459	358
527,535	18,569	90	91	65	17	28,403	85,596	23,651	48,647	65,596	161,791	442,297	9,569	3581
88,065	1,062	94	94	127	67	9,093	27,435	6,888	14,790	19,015	54,347	94,361	1,694	3582
112,029	3,045	95	94	70	46	15,305	48,484	12,647	26,095	37,926	68,681	97,011	5,089	3583
157,907	2,094	84	88	34	17	14,880	44,797	12,232	24,434	35,266	91,047	160,184	4,526	3584
(⁶)	107,708	(10)	(10)	561	269	128,677	378,594	107,763	218,975	297,774	587,928	(⁶)	46,131	3585
116,543	2,002	76	98	52	15	12,083	36,972	8,884	17,090	24,174	66,223	125,052	2,436	3586
172,233	4,065	83	82	178	90	11,125	36,180	8,063	16,940	22,794	65,728	129,621	6,014	3589
(⁶)	104,033	(NA)	(NA)	4,913	3,397	214,519	634,273	179,954	364,789	499,271	1,055,686	(⁶)	59,683	359
959,012	24,869	82	90	452	187	79,713	237,921	65,522	132,012	183,763	392,090	633,771	20,877	3591
225,902	4,804	82	83	212	143	10,568	33,362	8,273	16,781	23,172	58,786	115,976	4,084	3592
537,151	27,828	94	96	94	15	52,174	153,333	45,075	91,323	125,711	259,060	365,584	21,872	3593
193,784	6,939	(NA)	(NA)	1,042	...	9,664	35,928	8,771	18,216	31,080	55,934	69,524	...	3594
1,107,706	39,588	92	77	3,113	3,052	62,400	173,729	52,313	106,457	135,545	289,816	439,877	12,850	3599
(⁶)	340,677	(NA)	(NA)	3,970	1,727	796,357	2,258,657	634,661	1,277,994	1,636,714	3,860,235	(⁶)	244,606	36
(⁶)	136,044	(NA)	(NA)	1,562	681	315,466	924,936	248,266	505,618	670,891	1,578,955	(⁶)	91,783	361
584,666	12,346	85	86	344	141	39,160	104,095	33,020	65,839	78,655	218,567	384,446	13,801	3611
111,010	6,492	95	95	44	13	7,818	22,028	6,426	12,856	16,504	40,218	68,745	1,641	3612
359,456	16,133	84	80	154	68	20,926	60,661	16,086	32,576	42,326	103,946	153,380	4,342	3613
1,389,078	38,310	81	92	253	88	125,300	368,461	100,966	205,777	279,175	564,218	995,640	36,666	3614
686,087	22,852	85	91	144	83	36,635	107,978	28,160	58,568	78,525	195,102	356,968	13,479	3615
1,096,715	31,478	86	87	321	155	67,461	204,081	49,690	101,747	137,747	358,431	579,148	17,300	3616
168,846	4,713	93	89	108	42	7,265	29,151	5,139	10,185	17,709	57,310	103,712	2,089	3617
183,250	3,717	77	53	194	91	10,901	28,481	8,779	18,070	20,250	41,163	74,356	2,465	3619
795,304	20,786	86	72	324	127	44,105	124,275	37,039	77,962	96,083	235,352	464,242	16,446	3621
323,011	7,961	96	1031	133	86	20,259	55,839	17,338	38,358	43,742	99,661	290,241	6,071	3631
587,124	18,172	89	91	112	30	44,450	126,737	38,449	74,269	103,249	198,656	357,799	7,983	3641
326,343	8,288	94	100	62	12	23,842	57,914	21,550	42,090	48,891	120,344	203,248	11,318	3651
(⁶)	132,581	(NA)	(NA)	1,210	476	303,391	847,247	234,706	465,488	581,158	1,374,117	(⁶)	96,997	366
(⁶)	73,594	(10)	(10)	857	337	178,595	462,207	142,478	280,163	324,300	773,233	(⁶)	43,714	3661
709,183	32,836	94	95	51	6	27,703	65,420	22,571	43,662	46,704	94,040	124,518	5,602	3662
84,656	2,992	96	99	111	74	10,045	29,193	8,246	17,595	22,840	75,660	110,184	7,006	3663
797,109	22,144	94	99	90	20	76,072	258,567	53,630	108,687	167,488	384,417	689,182	39,280	3664
100,194	1,013	86	83	101	39	10,976	31,860	7,781	15,381	19,826	46,767	69,592	1,395	3669
(⁶)	16,844	(NA)	(NA)	567	315	44,844	121,709	37,313	74,209	92,700	253,150	(⁶)	14,008	369
341,374	10,512	1090	1099	246	182	16,570	49,734	13,632	29,541	38,257	114,246	297,654	7,910	3691
121,831	2,088	1090	1098	38	7	10,261	24,463	9,181	18,407	20,656	45,275	85,045	1,327	3692
79,943	1,913	94	93	116	62	7,678	23,217	5,621	11,762	15,354	38,635	59,518	2,271	3693
119,244	2,330	83	52	167	64	10,335	24,295	8,879	14,499	18,433	54,994	105,747	2,500	3699

GENERAL SUMMARY

Table 2A.—GENERAL STATISTICS FOR OPERATING MANUFACTURING ESTABLISHMENTS
(For explanation of column captions see Introduction.)

Code	Industry group and industry	1954									
		Primary products specialization ratio ¹	Coverage ratio ²	Establishments (Number)	Proprietors and firm members (Number)	All employees		Production workers			Value added by manufacture, unadjusted ⁴
						Number ³	Payroll (\$1,000)	Number ³	Man-hours (1,000)	Wages (\$1,000)	
37	Transportation equipment.....	(NA)	(NA)	5,348	2,976	1,704,572	8,295,773	1,327,078	2,714,603	6,003,250	13,925,983
371	Motor vehicles and equipment.....	96	98	2,195	1,088	695,475	3,407,657	583,048	1,201,354	2,710,237	6,406,642
3713	Truck and bus bodies.....	86	87	564	396	18,689	76,050	15,175	30,652	55,433	112,834
3715	Truck trailers.....	82	93	130	45	16,381	72,904	13,023	26,197	52,352	113,469
3716	Automobile trailers.....	99	98	275	143	11,131	43,874	9,491	18,592	33,031	68,784
3717	Motor vehicles and parts.....	(10)	(10)	1,226	504	649,274	3,214,827	545,359	1,125,912	2,569,419	6,111,554
372	Aircraft and parts.....	96	95	1,404	738	822,470	4,048,811	585,989	1,206,320	2,625,302	6,287,620
3721	Aircraft.....	89	99	72	...	457,618	2,277,320	320,445	654,781	1,441,632	3,348,876
3722	Aircraft engines.....	93	91	234	62	167,383	819,181	117,277	243,536	522,850	1,435,443
3723	Aircraft propellers.....	84	87	16	7	16,523	78,058	11,647	22,179	49,135	108,415
3729	Aircraft equipment, n.e.c.....	86	66	1,082	669	180,946	874,252	136,619	285,823	611,683	1,394,886
373	Ships and boats.....	94	98	1,509	1,055	126,352	562,070	110,905	216,612	468,903	776,415
3731	Ship building and repairing.....	92	99	355	109	109,451	504,470	96,196	187,982	421,791	691,908
3732	Boat building and repairing.....	93	85	1,154	946	16,900	57,599	14,709	28,630	47,112	84,507
374	Railroad equipment.....	83	90	86	6	51,575	243,536	39,797	76,408	173,032	403,547
3741	Locomotives and parts.....	82	95	29	3	20,891	104,274	15,968	31,439	70,575	188,322
3742	Railroad and street cars.....	83	86	57	3	30,683	139,261	23,828	44,969	102,457	215,224
3751	Motorcycles and bicycles.....	86	92	46	14	7,061	28,060	5,979	11,121	21,639	41,819
3799	Transportation equipment, n.e.c.....	92	44	108	75	1,636	5,637	1,359	2,786	4,135	9,938
38	Instruments and related products....	(NA)	(NA)	3,142	1,635	272,586	1,200,322	195,597	391,403	759,459	2,128,706
3811	Scientific instruments.....	77	64	370	168	45,315	217,831	30,797	64,264	134,801	356,713
3821	Mechanical measuring instruments.....	87	79	614	275	69,422	302,624	48,229	97,903	189,887	542,602
3831	Optical instruments and lenses.....	82	77	205	99	12,658	58,178	9,447	18,555	38,251	86,380
384	Medical instruments and supplies.....	88	86	1,057	671	38,122	149,465	27,112	53,915	90,264	272,020
3841	Surgical and medical instruments.....	86	75	208	115	6,562	23,223	5,267	11,012	17,398	41,656
3842	Surgical appliances and supplies.....	85	85	652	444	24,457	98,035	16,737	32,536	54,890	179,209
3843	Dental equipment and supplies.....	95	94	197	112	7,103	28,206	5,107	10,366	17,974	51,154
3851	Ophthalmic goods.....	83	94	238	117	18,464	64,536	15,355	29,960	48,332	110,452
3861	Photographic equipment.....	90	95	449	208	59,099	288,497	41,063	81,066	177,117	561,238
387	Watches and clocks.....	82	90	209	97	29,504	119,189	23,590	45,738	80,804	199,300
3871	Watches and clocks.....	82	90	145	69	25,708	103,232	20,282	39,125	67,962	179,069
3872	Watchcases.....	86	85	64	28	3,795	15,957	3,308	6,612	12,841	20,231
39	Miscellaneous manufactures ⁹	(NA)	(NA)	17,010	11,472	695,917	2,658,182	555,746	1,089,229	1,861,873	4,473,050
391	Jewelry and silverware.....	93	96	2,101	1,712	47,930	182,808	38,952	77,435	129,740	297,580
3911	Jewelry (precious metal).....	93	96	1,327	1,131	23,455	90,373	18,440	36,438	58,382	145,567
3912	Jewelers' findings.....	92	91	234	141	5,371	18,911	4,542	9,281	13,414	31,369
3913	Lapidary work.....	97	91	333	358	1,759	5,459	1,591	2,757	4,067	10,608
3914	Silverware and plated ware.....	91	97	207	82	17,345	68,064	14,379	28,957	53,876	110,034
393	Musical instruments and parts.....	96	96	242	119	15,407	61,219	13,230	26,329	48,242	93,072
3931	Pianos.....	88	100	27	1	5,759	24,079	4,945	9,508	18,596	32,436
3932	Organs.....	98	74	31	12	1,762	6,579	1,521	3,151	5,264	8,664
3933	Piano and organ parts.....	95	88	40	18	3,032	11,613	2,743	5,703	9,896	25,239
3939	Musical instruments, n.e.c.....	88	95	144	88	4,853	18,947	4,020	7,965	14,484	26,731
394	Toys and sporting goods.....	93	91	2,461	1,582	88,559	266,135	76,476	142,087	199,327	469,413
3941	Games and toys, n.e.c.....	95	89	886	488	38,242	113,208	32,789	60,813	83,227	208,484
3942	Dolls.....	92	97	484	364	15,119	38,938	13,792	24,618	30,657	66,289
3943	Children's vehicles.....	76	90	60	20	6,278	24,308	5,454	10,553	19,354	36,499
3949	Sporting and athletic goods.....	90	86	1,031	710	28,919	89,681	24,439	46,101	66,087	158,153
395	Office supplies.....	...	...	832	556	28,218	109,046	20,662	41,874	64,550	195,080
3951	Pens and mechanical pencils.....	89	95	140	71	10,879	44,123	8,089	16,428	25,191	83,793
3952	Lead pencils and crayons.....	88	94	60	19	5,029	17,135	3,794	7,775	10,802	29,224
3953	Hand stamps and stencils.....	90	89	453	386	5,654	21,857	4,056	8,123	13,764	32,466
3954	Artists' materials.....	84	76	95	55	1,913	6,585	1,467	2,875	4,033	11,836
3955	Carbon paper and inked ribbons.....	93	83	84	25	4,742	19,344	3,255	6,671	10,757	37,758
396	Costume jewelry and notions.....	91	94	2,364	1,827	66,675	200,398	57,282	108,747	146,050	316,497
3961	Costume jewelry.....	95	95	1,127	833	27,744	79,017	24,269	46,679	58,445	129,239
3962	Artificial flowers.....	97	98	471	413	7,306	17,299	6,690	12,009	13,446	28,952
3963	Buttons.....	92	89	409	388	8,471	23,235	7,430	14,123	17,483	36,679
3964	Needles, pins, and fasteners.....	82	91	357	193	23,152	80,846	18,893	35,935	56,674	121,625
3971	Plastics products, n.e.c.....	90	84	2,439	1,073	91,967	350,227	75,689	152,179	248,975	589,254

See footnotes at end of table.

BY INDUSTRY GROUPS AND INDUSTRIES: 1954 AND 1947—Continued

For definitions of industries, see Appendix A—Industry Descriptions)

1954—Continued		1947												Code
Value of shipments	Capital expenditures, new ⁵	Primary products specialization ratio ¹	Coverage ratio ²	Establishments	Proprietors and firm members	All employees		Production workers			Value added by manufacture, unadjusted ⁴	Value of shipments	Capital expenditures, new ⁵	
						Number ³	Payroll	Number ³	Man-hours	Wages				
(\$1,000)	(\$1,000)			(Number)	(Number)		(\$1,000)		(1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)
(⁶)	924,646	(NA)	(NA)	3,703	2,534	1,174,498	3,694,932	981,103	1,961,398	2,920,813	5,841,722	(⁶)	354,974	37
(⁶)	730,837	(NA)	(NA)	1,894	1,225	693,763	2,182,323	593,201	1,173,977	1,778,433	3,790,866	(⁶)	288,053	371
232,514	3,445	79	90	603	546	26,646	78,386	22,876	47,209	62,664	127,429	242,297	8,762	372
305,510	2,788	81	87	120	63	12,488	36,287	9,741	19,708	25,964	67,570	155,686	6,147	3715
230,836	2,404	98	99	220	182	9,562	27,778	8,529	17,412	22,892	50,943	138,006	3,424	3716
(⁶)	722,199	(10)	(10)	951	434	645,067	2,039,872	552,055	1,089,648	1,666,913	3,544,924	(⁶)	269,720	3717
(⁶)	142,206	(NA)	(NA)	332	201	219,611	703,702	162,596	329,452	476,297	954,575	(⁶)	27,867	372
6,267,147	59,446	(10)	(10)	58	4	146,625	462,906	110,332	221,796	316,795	605,983	(⁶)	7,901	3721
3,188,950	46,689	90	95	59	23	50,423	166,308	36,019	74,187	110,716	252,254	464,623	13,651	3722
210,094	4,320	(10)	(10)	13	4	7,423	25,666	4,822	9,916	15,230	26,685	(⁶)	3,361	3723
2,342,536	31,750	82	38	202	170	15,140	48,822	11,423	23,553	33,556	69,653	105,327	2,954	3729
(⁶)	24,120	95	99	1,110	884	149,655	467,585	132,033	269,136	394,371	586,558	(⁶)	11,546	373
1,077,889	19,316	94	98	302	107	130,805	417,829	115,232	235,186	352,401	520,363	802,561	8,982	3731
154,369	4,804	83	88	808	777	18,850	49,756	16,801	33,950	41,970	66,195	114,374	2,564	3732
(⁶)	25,445	(NA)	(NA)	123	20	91,270	284,003	75,724	152,127	225,186	416,222	(⁶)	21,681	374
428,281	6,370	95	83	36	11	30,419	97,896	25,432	50,828	78,338	143,092	355,205	10,021	3741
495,767	19,074	91	(NA)	87	9	60,851	186,107	50,292	101,299	146,848	273,130	726,167	11,660	3742
95,649	1,476	87	89	76	34	15,615	45,661	13,659	28,245	37,732	72,838	163,670	4,600	3751
21,662	561	82	67	168	170	4,584	11,658	3,890	8,461	8,794	20,663	46,843	1,227	3799
(⁶)	94,008	(NA)	(NA)	2,605	1,661	244,872	706,055	194,303	389,940	502,168	1,140,499	(⁶)	56,000	38
580,916	8,615	81	82	215	122	18,419	56,015	13,526	27,228	37,738	75,922	117,312	4,489	3811
804,257	21,487	84	81	466	274	60,481	173,888	46,742	93,094	122,379	281,482	423,381	8,846	3821
117,649	4,555	93	75	115	90	8,478	24,737	6,682	13,611	17,965	34,090	45,344	1,520	3831
(⁶)	12,401	(NA)	(NA)	980	686	39,127	111,019	30,024	60,226	72,660	188,838	(⁶)	9,014	384
62,649	975	83	88	139	102	6,980	20,297	5,818	11,702	15,281	30,214	45,121	898	3841
338,449	9,991	81	91	628	458	23,073	65,097	17,074	34,277	40,075	115,699	256,604	5,730	3842
79,171	1,434	97	94	213	126	9,074	25,625	7,132	14,247	17,304	42,925	71,102	2,386	3843
157,939	5,042	86	97	184	96	22,562	57,112	19,847	39,645	46,507	87,205	121,153	3,722	3851
867,597	37,924	93	97	369	216	55,624	172,973	42,365	85,038	121,456	278,502	457,497	23,145	3861
(⁶)	3,981	(NA)	(NA)	276	177	40,181	110,311	35,117	71,098	83,463	194,460	(⁶)	5,264	387
330,043	3,511	97	98	194	119	34,623	93,331	30,237	60,899	70,372	169,474	341,199	4,743	3871
34,991	(13)	87	94	82	58	5,558	16,980	4,880	10,199	13,091	24,986	44,494	521	3872
(⁶)	176,036	(NA)	(NA)	14,148	11,849	463,390	1,205,212	396,002	811,288	917,572	2,066,259	(⁶)	106,960	39
(⁶)	7,339	(NA)	(NA)	2,032	1,855	55,169	168,485	46,129	99,125	127,506	304,363	(⁶)	10,185	391
258,147	1,836	92	95	1,344	1,264	25,566	76,462	20,610	42,877	54,222	140,478	248,185	2,674	3911
69,325	1,558	92	93	182	153	6,056	17,350	5,203	11,001	12,389	29,714	73,530	2,005	3912
33,564	(13)	98	98	270	323	1,699	5,524	1,525	3,068	4,532	10,860	30,269	148	3913
211,083	3,826	98	97	236	115	21,848	69,149	18,791	42,179	56,363	123,311	221,584	5,358	3914
(⁶)	1,922	(NA)	(NA)	260	192	16,889	46,808	14,814	31,269	38,198	71,356	(⁶)	2,445	393
64,723	513	94	100	27	3	6,978	20,573	6,170	13,204	16,948	31,097	55,086	1,138	3931
28,945	(13)	85	70	27	32	1,337	3,362	1,131	2,428	2,647	5,190	12,372	241	3932
35,474	542	95	82	37	3	3,209	8,402	2,928	6,223	7,185	12,947	19,865	565	3933
40,215	704	93	90	169	157	5,365	14,471	4,585	9,414	11,418	22,122	31,366	501	3939
(⁶)	17,599	(NA)	(NA)	2,197	1,861	75,476	173,811	67,214	132,441	138,333	294,644	(⁶)	16,829	394
382,665	8,358	92	90	837	701	27,140	60,554	24,174	47,093	47,403	105,414	181,939	6,811	3941
142,732	2,247	89	98	377	372	9,797	21,847	8,886	17,386	17,739	37,577	69,786	1,107	3942
76,650	(13)	81	79	120	62	8,783	24,735	7,773	15,972	19,423	44,204	85,831	1,560	3943
293,735	5,662	94	90	863	726	29,756	66,675	26,381	51,990	53,768	107,449	202,303	7,351	3949
(⁶)	7,399	(NA)	(NA)	786	580	31,429	81,657	24,634	50,264	55,250	162,599	(⁶)	7,099	395
128,540	3,054	93	95	184	113	15,553	40,606	12,527	24,705	28,207	89,897	147,368	3,865	3951
54,892	1,771	91	90	50	22	6,279	14,726	5,190	10,726	10,409	23,633	45,037	1,105	3952
47,627	1,060	89	89	425	368	4,556	12,483	3,362	7,150	8,426	19,486	27,459	924	3953
23,599	(13)	79	74	60	45	1,360	3,220	997	2,006	1,944	5,968	13,298	265	3954
81,190	1,120	1090	1090	67	32	3,681	10,622	2,558	5,677	6,264	23,615	48,636	940	3955
(⁶)	10,165	(NA)	(NA)	2,035	1,974	66,024	153,803	57,732	117,519	118,765	263,024	(⁶)	10,370	396
239,409	3,621	90	91	859	805	25,371	59,487	22,266	46,532	45,979	107,224	170,294	3,146	3961
49,990	(13)	97	99	445	525	7,130	13,448	6,569	12,348	10,713	23,813	39,463	515	3962
64,769	1,139	93	94	454	457	10,564	22,077	9,556	19,330	17,745	34,695	59,533	1,131	3963
203,122	4,981	91	89	277	187	22,959	58,791	19,341	39,309	44,328	97,292	147,221	5,578	3964
1,192,895	45,290	91	89	1,362	805	58,400	156,369	49,502	102,331	119,455	258,917	472,957	27,042	3971

Table 2A.—GENERAL STATISTICS FOR OPERATING MANUFACTURING ESTABLISHMENTS

(For explanation of column captions see Introduction.)

Code	Industry group and industry	1954								
		Primary product specialization ratio ¹	Coverage ratio ²	Establishments (Number)	Proprietors and firm members (Number)	All employees		Production workers		
						Number ³	Payroll (\$1,000)	Number ³	Man-hours (1,000)	Wages (\$1,000)
398	Miscellaneous manufactures ⁹	(NA)	(NA)	6,571	4,603	357,153	1,488,343	273,449	540,574	1,024,984
399										2,512,162
3981	Brooms and brushes.....	91	92	698	566	16,826	54,789	13,534	25,595	36,294
3982	Cork products.....	81	69	35	14	2,117	8,097	1,771	3,507	6,233
3983	Matches.....	100	98	20	1	6,191	21,308	5,147	10,290	15,945
3984	Candles.....	87	93	89	56	3,010	9,420	2,289	4,716	6,112
3985	Fireworks and pyrotechnics.....	89	89	78	32	2,637	7,443	2,334	4,398	5,552
3986	Jewelry and instrument cases.....	85	92	166	106	8,003	25,050	6,437	12,438	16,979
3987	Lamp shades.....	93	96	325	287	5,025	12,542	4,524	8,394	9,957
3988	Morticians' goods.....	97	97	563	346	16,729	59,233	13,302	26,499	40,001
3991	Beauty and barber-shop equipment.....	92	71	67	23	1,719	6,936	1,419	3,016	4,741
3992	Furs, dressed and dyed.....	(10)	(10)	160	103	3,459	16,420	3,005	4,822	13,108
3993	Signs and advertising displays.....	93	92	2,620	2,088	33,581	135,578	26,205	51,681	90,602
3994	Hairwork.....	96	97	131	110	1,708	4,440	1,463	2,583	3,252
3995	Umbrellas, parasols, and canes.....	95	92	140	109	3,210	9,364	2,873	5,150	6,965
3996	Tobacco pipes.....	99	98	43	22	1,521	4,768	1,337	2,501	3,561
3997	Soda-fountain and bar equipment.....	83	74	50	21	1,445	6,422	1,129	2,231	4,487
3999	Miscellaneous products, n.e.c.....	84	88	893	598	20,765	73,740	16,336	31,582	48,010
19--	Ordinance and accessories.....	(NA)	(NA)	493	121	229,191	1,032,781	170,326	341,151	713,169
										1,769,065

Note: Detailed figures may not add to totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies.

NA Not available.

¹The "Primary product specialization ratio" measures the extent to which plants classified in the industry "specialize" in making products classified as primary to the industry. That is, value of shipments of primary products of plants in the industry is expressed as a ratio of the total shipments of all products made by these establishments, (excluding "miscellaneous receipts," such as receipts for contract and commission work on materials owned by others, scrap and salable refuse, repair, etc.).

²The "Coverage ratio" measures the extent to which all shipments of primary products of an industry are made by plants classified in the industry. That is, value of shipments of the primary products made by plants classified in the industry is expressed as a ratio of the total shipments of primary products made by all producers, both in and out of the specified industry.

³For most industries in 1954 the data for "All employees" and "Production workers" are based on reported data for the payroll periods ended nearest the 15th of March, May, August, and November. For 1947 and in 1954 for industries of a seasonal type an average based on the mid-month employment for 12 months was used.

⁴Unadjusted value added by manufacture represents value of products shipped less cost of materials, supplies, fuel, electric energy and contract work.

⁵Does not include expenditures for plants under construction and not yet in operation. Figures for such capital expenditures will be shown in other tables.

⁶The total value of shipments figures for industry groups (2- and 3- digit) and a few individual industries (4-digit) have not been published due to the extensive duplication arising from shipments from one establishment to another in the same industry classification. (See Introduction.)

⁷The 1954 and 1947 "all industries" totals are not strictly comparable because of differences in scope between the two years in Major groups 20 and 24 (see footnote 8).

⁸Comparable data are not available due to differences in the coverage between 1947 and 1954. The 1947 Census figures exclude establishments in S.I.C. Industry 2411, Logging Camps and Contractors, which are included in the scope of the 1954 Census; the 1947 Census also excludes plants processing and distributing fluid milk which in 1954 were classified in Industry Group 202, Dairy Products. In the special comparative table below, data for these industries have been subtracted from the appropriate totals:

Industry group		Estab-lish-ments Number	Pro-prie-tors and firm mem-bers Number	All employees		Production workers			Value added by manu-facture, unadjusted (\$1,000)	Capital expendi-tures, new (\$1,000)
				Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)		
1954										
20	Food and kindred products except subgroup 202, Dairy products.....	30,871	22,056	1,363,773	5,115,209	985,043	1,983,675	3,251,908	11,143,480	625,927
24	Lumber and wood products except Industry 2411, Logging camps and contractors.....	28,619	28,041	570,426	1,722,898	513,749	991,380	1,422,564	2,798,481	168,729
1947										
20	Food and kindred products except subgroup 202, Dairy products.....	34,507	28,260	1,349,100	3,559,879	1,030,356	2,208,047	2,412,296	8,427,804	737,352
24	Lumber and wood products except Industry 2411, Logging camps and contractors.....	26,312	29,272	641,799	1,351,957	601,412	1,255,102	1,191,052	2,520,402	171,574

See tables in the Dairy Products section of the Industry Volume for additional details.

GENERAL SUMMARY

23

BY INDUSTRY GROUPS AND INDUSTRIES: 1954 AND 1947--Continued

For definitions of industries, see Appendix A--Industry Descriptions

1954—Continued		1947												
Value of shipments	Capital expenditures, new ⁵	Primary products specialization ratio ¹	Coverage ratio ²	Establishments	Proprietors and firm members	All employees		Production workers			Value added by manufacture, unadjusted ⁴	Value of shipments	Capital expenditures, new ⁵	Code
						Number ³	Payroll	Number ³	Man-hours	Wages				
(\$1,000)	(\$1,000)			(Number)	(Number)		(\$1,000)		(1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	
(⁶)	86,319	(NA)	(NA)	5,476	4,582	160,003	424,279	135,977	278,339	320,065	711,356	(⁶)	32,990	{ 398 399
185,445	3,074	94	97	706	659	18,551	44,875	15,543	30,617	31,162	87,288	179,811	4,715	3981
39,910	1,486	88	75	36	8	2,485	6,802	2,150	4,562	5,427	11,657	30,077	986	3982
60,633	846	¹⁰ 100	100	29	1	7,350	16,422	6,612	13,724	13,406	31,302	56,657	2,748	3983
29,288	822	91	87	54	40	2,405	5,596	1,933	3,972	3,704	8,911	17,906	1,299	3984
21,715	(¹³)	97	96	73	24	3,251	6,694	2,982	5,954	5,706	8,626	15,219	649	3985
64,502	781	85	80	165	140	7,212	15,848	6,525	13,252	12,737	26,335	43,005	764	3986
38,677	(¹³)	93	93	291	288	4,488	8,473	4,100	8,275	7,043	14,668	27,499	327	3987
166,141	2,846	90	97	568	355	22,375	60,002	18,242	38,987	42,388	92,395	188,829	3,441	3988
20,520	(¹³)	77	68	84	25	3,199	9,009	2,651	5,622	6,254	14,386	25,504	263	3991
29,060	(¹³)	(¹⁰)	(¹⁰)	176	126	6,904	25,766	6,197	12,814	21,866	43,277	53,089	503	3992
353,340	6,967	95	88	1,982	1,783	28,489	81,190	23,987	49,051	61,339	128,969	204,731	5,540	3993
13,701	(¹³)	95	99	87	90	1,170	2,436	1,046	2,039	2,040	4,380	8,151	51	3994
31,613	(¹³)	97	100	164	179	3,585	8,360	3,267	6,628	6,490	15,421	34,348	526	3995
10,542	(¹³)	(D)	(D)	76	47	3,140	8,810	2,745	5,552	6,302	13,738	19,325	110	3996
19,918	(¹³)	83	76	67	45	2,739	8,488	2,231	4,822	6,524	16,254	31,504	770	3997
234,939	6,761	89	92	876	753	22,727	58,000	18,856	37,792	41,731	102,427	199,476	3,887	3999
(⁶)	61,073	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	19--

⁹Includes privately owned and/or operated establishments classified in Industry Group 19, "Ordnance and Accessories." Government owned and operated establishments are excluded from the annual survey and the census data.

¹⁰For further qualifications of the ratio for this industry see Appendix A--Industry Descriptions.

¹¹Includes data for Industry 2012, Custom Slaughtering.

¹²Includes data for Industry 2014, Sausage Casings.

¹³Less than \$500 thousand.

¹⁴Includes data for Industry 2225, Yarn Mills, silk system.

¹⁵Data for 1954 include reports for establishments which are owned by the government but privately operated and exclude data for T.V.A. The 1947 figures exclude data for government owned but privately operated establishments but include data for T.V.A.

GENERAL SUMMARY

Table 2B.—UNADJUSTED AND ADJUSTED VALUE ADDED FOR INDUSTRIES AND INDUSTRY GROUPS: 1954
(In thousands of dollars. For explanation of column captions see Introduction)

Code	Industry and industry group	Value added by manufacture, unadjusted ¹	Value added by merchandising (resales)	Net change in finished products and work-in- process inventories between the beginning and end of 1954 ²	Adjusted value added ¹
	All industries, total.....	116,912,526	1,760,131	-1,222,112	117,450,545
20	Food and kindred products.....	13,400,218	356,788	12,426	13,769,432
21	Tobacco manufactures.....	988,001	2,462	13,593	1,004,056
22	Textile mill products.....	4,748,586	36,574	-75,910	4,709,250
23	Apparel and related products.....	5,147,371	67,577	-49,401	5,165,547
24	Lumber and wood products.....	3,188,409	64,727	-11,530	3,241,606
25	Furniture and fixtures.....	1,966,410	27,089	4,007	1,997,506
26	Pulp, paper and products.....	4,580,944	24,847	24,362	4,630,153
27	Printing and publishing.....	6,264,558	147,592	(³)	6,412,150
28	Chemicals and products.....	9,443,629	178,661	-11,110	9,611,180
29	Petroleum and coal products.....	2,582,613	37,876	1,510	2,621,999
30	Rubber Products.....	1,903,702	56,230	-5,531	1,954,401
31	Leather and leather goods.....	1,637,417	11,593	-8,206	1,640,804
32	Stone, clay and glass products.....	3,821,659	50,436	-5,866	3,866,229
33	Primary metal industries.....	9,372,910	29,149	-11,624	9,390,435
34	Fabricated metal products.....	7,596,275	136,792	-79,676	7,653,391
35	Machinery, except electrical.....	12,338,923	218,330	-174,662	12,482,591
36	Electrical machinery.....	7,403,134	119,768	-223,295	7,299,607
37	Transportation equipment.....	13,925,983	80,281	-230,319	13,775,945
38	Instruments and related products.....	2,128,706	50,072	-47,165	2,131,613
39	Miscellaneous manufactures ⁴	4,473,050	63,287	-143,714	4,392,623
20	Food and kindred products.....	13,400,218	356,788	12,426	13,769,432
201	Meat products.....	1,930,974	36,172	-28,839	1,938,307
2011	Meat packing plants.....	1,394,486	22,497	-19,808	1,397,175
2013	Prepared meats.....	330,312	8,405	-4,966	333,751
2015	Poultry dressing plants.....	206,175	5,270	-4,065	207,380
202	Dairy products.....	2,256,738	63,275	-17,467	2,302,546
2021	Creamery butter.....	136,953	9,693	-4,247	142,399
2022	Natural cheese.....	88,716	2,476	624	91,816
2023	Concentrated milks.....	170,566	1,708	-6,979	165,295
2024	Ice cream and ices.....	327,898	8,518	-986	335,430
2025	Special dairy products.....	56,965	1,165	-5,115	53,015
2026	Fluid milk only.....	98,940	3,770	496	103,206
2027	Fluid milk and other products.....	1,376,698	35,945	-1,260	1,411,383
203	Canned and frozen foods.....	1,301,195	22,653	48,750	1,372,598
2031	Canned seafood.....	70,387	3,050	20,479	93,916
2032	Cured fish.....	10,512	802	59	11,373
2033	Canned fruits and vegetables.....	830,019	11,014	9,081	850,114
2034	Dehydrated fruits and vegetables.....	55,176	166	697	56,039
2035	Pickles and sauces.....	140,925	4,373	-2,242	143,056
2036	Packaged seafood.....	45,657	1,607	48,729	94,993
2037	Frozen fruits and vegetables.....	148,517	1,641	19,211	169,369
204	Grain mill products.....	1,217,055	65,736	5,414	1,288,205
2041	Flour and meal.....	315,143	15,088	403	330,634
2042	Prepared animal feeds.....	584,135	42,696	3,132	629,963
2043	Cereal breakfast foods.....	172,283	5,439	-551	177,171
2044	Rice milling.....	42,359	127	1,818	44,304
2045	Flour mixes.....	103,134	2,386	612	106,132
205	Bakery products.....	1,977,188	78,762	996	2,056,946
2051	Bread and related products.....	1,568,933	67,799	81	1,636,813
2052	Biscuit and crackers.....	408,254	10,963	915	420,132
206	Sugar.....	250,759	1,275	12,727	264,761
2061	Raw cane sugar.....	15,431	8	2,201	17,640
2062	Cane-sugar refining.....	138,971	119	-5,710	133,380
2063	Beet sugar.....	96,357	1,148	16,236	113,741
207	Candy and related products.....	596,211	7,230	6,412	609,853
2071	Confectionery products.....	422,314	7,165	2,404	431,883
2072	Chocolate and cocoa products.....	81,745	33	3,963	85,741
2073	Chewing gum.....	92,150	32	45	92,227
208	Beverages.....	2,237,428	30,332	-21,183	2,246,577
2081	Bottled soft drinks.....	635,045	14,681	1,436	651,162
2082	Beer and ale.....	1,100,741	3,923	1,639	1,106,303
2083	Malt.....	48,149	633	1,530	50,312
2084	Wines and brandy.....	96,749	1,933	1,712	100,394
2085	Distilled liquor, except brandy.....	356,741	9,162	-27,500	338,403
209	Miscellaneous foods.....	1,632,667	51,353	5,616	1,689,636
2091	Leavening compounds.....	45,350	321	-49	45,622
2092	Shortening and cooking oils.....	175,988	1,487	6,344	183,819
2093	Margarine.....	42,467	894	624	43,985
2094	Corn wet milling.....	176,696	1,046	980	178,722
2095	Flavorings.....	219,445	1,938	373	221,756
2097	Manufactured ice.....	115,469	8,558	-194	123,833
2098	Macaroni and spaghetti.....	50,951	1,308	309	52,568
2099	Food preparations, nec.....	806,298	35,801	-2,771	839,328

See footnotes at end of table.

GENERAL SUMMARY

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Table 2B.—UNADJUSTED AND ADJUSTED VALUE ADDED FOR INDUSTRIES AND INDUSTRY GROUPS: 1954—Continued

(In thousands of dollars. For explanation of column captions see Introduction)

Code	Industry and industry group	Value added by manufacture, unadjusted ¹	Value added by merchandising (resales)	Net change in finished products and work-in-process inventories between the beginning and end of 1954 ²	Adjusted value added ¹
21	Tobacco manufactures.....	988,001	2,462	13,593	1,004,056
2111	Cigarettes.....	677,252	141	-800	676,593
2121	Cigars.....	165,312	181	2,873	168,366
2131	Chewing and smoking tobacco.....	80,057	265	-703	79,619
2141	Tobacco stemming and redrying.....	65,378	1,875	12,223	79,476
22	Textile mill products.....	4,748,586	36,574	-75,910	4,709,250
221	Woolen and worsted manufactures.....	452,906	800	-17,051	436,655
2211	Scouring and combing plants.....	35,084	343	-1,904	33,523
2212	Yarn mills, wool, except carpet.....	78,971	49	-6,275	72,745
2213	Woolen and worsted fabrics.....	315,706	163	-9,614	306,255
2216	Finishing wool textiles.....	23,143	245	742	24,130
222	Yarn and thread mills.....	415,492	1,092	-11,316	405,268
2222	Yarn throwing mills.....	53,964	355	79	54,398
2223	Thread mills.....	62,694	638	-926	62,406
2224	Yarn mills, cotton system.....	298,833	99	-10,469	288,463
223	Broad-woven fabrics.....	1,550,272	4,474	-10,817	1,543,929
2233	Cotton broad-woven fabrics.....	1,127,507	2,404	5,454	1,135,365
2234	Synthetic broad-woven fabrics.....	422,765	2,070	-16,271	408,564
2241	Narrow fabric mills.....	121,547	2,870	-404	124,013
225	Knitting mills.....	938,138	18,364	-16,686	939,816
2251	Full-fashioned hosiery mills.....	266,993	5,362	-1,576	270,779
2252	Seamless hosiery mills.....	202,477	1,591	-912	203,156
2253	Knit outerwear mills.....	231,702	9,989	-5,196	236,495
2254	Knit underwear mills.....	110,591	934	-6,786	104,739
2255	Knit glove mills.....	6,192	30	-422	5,800
2256	Knit fabric mills.....	113,122	390	-1,891	111,621
2259	Knitting mills, nec.....	7,059	68	99	7,226
2261	Finishing textiles, except wool.....	464,165	545	-2,345	462,365
227	Carpets and rugs.....	360,856	3,190	-11,634	352,412
2271	Wool carpets and rugs.....	191,409	2,046	-12,496	180,959
2273	Carpets and rugs, except wool.....	67,110	159	919	68,188
2274	Hard-surface floor coverings.....	102,337	985	-57	103,265
228	Hats (except cloth and millinery).....	61,886	880	-2,325	60,441
2281	Fur-felt hats and hat bodies.....	39,160	522	-1,454	38,228
2282	Wool-felt hats and hat bodies.....	7,250	58	-647	6,661
2283	Straw hats.....	11,573	274	-222	11,625
2284	Hatter's fur.....	3,902	26	-1	3,927
229	Miscellaneous textile goods.....	383,320	4,359	-3,332	384,347
2291	Felt goods, nec.....	41,656	545	409	42,610
2292	Lace goods.....	37,734	258	-421	37,571
2293	Padding and upholstery filling.....	61,499	1,009	125	62,633
2294	Processed textile waste.....	30,723	1,435	27	32,185
2295	Coated fabric, except rubberized.....	80,294	142	-568	79,868
2298	Cordage and twine.....	77,298	185	-3,972	73,511
2299	Textile goods, nec.....	54,115	785	1,068	55,968
23	Apparel and related products.....	5,147,371	67,577	-49,401	5,165,547
231	Men's and boys' suits and coats.....	548,168	5,345	-14,902	538,611
2311	Men's and boys' suits and coats.....	536,880	5,303	-14,949	527,234
2312	Suit and coat findings.....	11,288	42	47	11,377
232	Men's and boys' furnishings.....	1,008,357	19,317	-21,308	1,006,366
2321	Men's dress shirts and nightwear.....	372,941	6,568	-9,380	370,129
2322	Men's and boys' underwear.....	29,952	1,172	329	31,453
2323	Men's and boys' neckwear.....	48,237	1,990	-876	49,351
2325	Men's and boys' cloth hats.....	33,030	720	-521	33,229
2326	Hat and cap materials.....	4,579	117	...	4,696
2327	Separate trousers.....	181,309	899	-1,824	180,384
2328	Work shirts.....	16,652	1	-55	16,598
2329	Men's and boys' clothing, nec.....	321,655	7,850	-8,981	320,524
233	Women's and misses' outerwear.....	1,686,067	14,436	-4,127	1,696,376
2331	Blouses.....	165,352	669	-108	165,913
2333	Dresses, unit price.....	661,292	1,426	-530	662,188
2334	Dresses, dozen price.....	205,070	4,148	-1,548	207,670
2337	Women's suits, coats, and skirts.....	529,623	2,573	-622	531,574
2338	Women's neckwear and scarfs.....	9,676	2,759	-412	12,023
2339	Women's outerwear, nec.....	115,046	2,861	-906	117,001
234	Women's and children's undergarments.....	513,256	2,071	-5,546	509,781
2341	Women's and children's underwear.....	298,385	1,509	-4,725	295,169
2342	Corsets and allied garments.....	214,870	562	-821	214,611
2351	Millinery.....	101,180	693	-255	101,618

See footnotes at end of table.

GENERAL SUMMARY

Table 2B.—UNADJUSTED AND ADJUSTED VALUE ADDED FOR INDUSTRIES AND INDUSTRY GROUPS: 1954—Continued
(In thousands of dollars. For explanation of column captions see Introduction)

Code	Industry and industry group	Value added by manufacture, unadjusted ¹	Value added by merchandising (resales)	Net change in finished products and work-in- process inventories between the beginning and end of 1954 ²	Adjusted value added ¹
	Apparel and related products—Con.				
236	Children's outerwear.....	322,052	1,434	-3,005	320,481
2361	Children's dresses.....	127,587	143	43	127,773
2363	Children's coats.....	72,601	172	-770	72,003
2369	Children's outerwear, nec.....	121,863	1,119	-2,278	120,704
2371	Fur goods.....	74,755	1,952	-864	75,843
238	Miscellaneous apparel.....	266,605	5,694	-3,452	268,847
2381	Fabric dress gloves.....	17,271	237	-409	17,099
2382	Fabric work gloves.....	29,561	593	192	30,346
2383	Suspenders and garters.....	4,194	31	-76	4,149
2384	Robes and dressing gowns.....	44,027	94	-892	43,229
2385	Waterproof outer garments.....	59,342	511	-912	58,941
2386	Leather and sheep-lined clothing.....	24,248	103	-781	23,570
2387	Belts.....	58,010	2,389	-268	60,131
2388	Handkerchiefs.....	14,366	726	-95	14,997
2389	Apparel, nec.....	15,582	1,010	-210	16,382
239	Fabricated textiles, nec.....	626,928	16,635	4,058	647,621
2391	Curtains and draperies.....	61,392	1,428	996	63,816
2392	Housefurnishings, nec.....	173,910	3,909	717	178,536
2393	Textile bags.....	51,641	2,728	745	55,114
2394	Canvas products.....	61,442	3,930	-208	65,164
2395	Tucking, pleating and stitching.....	27,904	30	18	27,952
2396	Trimings and art goods.....	87,687	1,628	1,941	91,256
2397	Schiffli-machine embroideries.....	34,396	572	-98	34,870
2398	Embroideries, except Schiffli.....	41,280	487	-1	41,766
2399	Fabricated textile products, nec.....	87,272	1,923	-52	89,143
24	Lumber and wood products.....	3,188,409	64,727	-11,530	3,241,606
2411	Logging camps and contractors.....	389,928	4,180	-1,342	392,766
242	Lumber and basic products.....	1,595,384	22,228	-7,202	1,610,410
2421	Sawmills and planing mills.....	1,502,911	21,450	-6,611	1,517,750
2422	Veneer mills.....	59,250	312	-491	59,071
2423	Shingle mills.....	15,451	385	422	16,258
2424	Cooperage stock mills.....	10,843	39	-568	10,314
2425	Excelsior mills.....	6,928	42	45	7,015
243	Millwork and related products.....	709,768	30,611	3,264	743,643
2431	Millwork plants.....	374,518	28,202	5,751	408,471
2432	Plywood plants.....	246,250	813	-2,421	244,642
2433	Prefabricated wood products.....	88,999	1,596	-66	90,529
244	Wooden containers.....	215,297	4,559	-5,107	214,749
2441	Fruit and vegetable baskets.....	18,961	126	237	19,324
2442	Rattan and willow ware.....	5,329	249	-62	5,516
2443	Cigar boxes.....	3,988	3	40	4,031
2444	Wooden boxes.....	165,361	4,023	-392	168,992
2445	Cooperage.....	21,656	158	-4,930	16,884
249	Miscellaneous wood products.....	278,031	3,149	-1,143	280,037
2491	Wood preserving.....	69,257	293	-1,019	68,531
2492	Lasts and related products.....	8,210	50	33	8,293
2493	Mirror and picture frames.....	27,601	471	-162	27,910
2499	Wood products, nec.....	172,961	2,335	5	175,301
25	Furniture and fixtures.....	1,966,410	27,089	4,007	1,997,506
251	Household furniture.....	1,320,743	14,091	1,124	1,335,958
2511	Wood house furniture not upholstered....	592,714	8,881	496	602,091
2512	Upholstered household furniture.....	313,034	1,551	252	314,837
2514	Metal household furniture.....	190,816	1,374	788	192,978
2515	Mattresses and bedsprings.....	216,362	2,245	-452	218,155
2519	Household furniture, nec.....	7,815	40	40	7,895
252	Office furniture.....	154,566	2,672	-39	157,199
2521	Wood office furniture.....	28,757	191	111	29,059
2522	Metal office furniture.....	125,808	2,481	-150	128,139
253	Public and professional furniture.....	125,674	1,561	1,343	128,578
2531	Public-building furniture.....	87,446	968	1,754	90,168
2532	Professional furniture.....	38,228	593	-411	38,410
2541	Partitions and fixtures.....	230,712	3,600	1,934	236,246
256	Screens, shades, and blinds.....	109,931	4,473	-786	113,618
2561	Window and door screens.....	32,630	436	-367	32,699
2562	Window shades.....	29,604	2,045	-273	31,376
2563	Venetian blinds.....	47,696	1,992	-146	49,542
259	Furniture and fixtures, nec.....	24,782	692	431	25,905
2591	Restaurant furniture.....	18,790	674	365	19,829
2599	Furniture and fixtures, nec.....	5,992	18	66	6,076

See footnotes at end of table.

Table 2B.—UNADJUSTED AND ADJUSTED VALUE ADDED FOR INDUSTRIES AND INDUSTRY GROUPS: 1954—Continued
(In thousands of dollars. For explanation of column captions see Introduction)

Code	Industry and industry group	Value added by manufacture, unadjusted ¹	Value added by merchandising (resales)	Net change in finished products and work-in- process inventories between the beginning and end of 1954 ²	Adjusted value added ¹
26	Pulp, paper and products.....	4,580,944	24,847	24,362	4,630,153
261	Pulp, paper and board.....	2,289,349	3,767	11,669	2,304,785
2611	Pulp mills.....	704,274	118	2,674	707,066
2612	Paper and paperboard mills.....	1,429,659	567	8,893	1,439,119
2613	Building paper and board mills.....	155,415	3,082	102	158,599
2641	Paper coating and glazing.....	282,067	1,588	1,314	284,969
2651	Envelopes.....	101,430	841	527	102,798
2661	Paper bags.....	211,688	2,118	2,284	216,090
267	Paperboard containers.....	969,675	4,477	2,608	976,760
2671	Paperboard boxes.....	895,298	4,312	2,751	902,361
2674	Fiber cans, tubes, drums, etc.....	74,377	165	-143	74,399
269	Pulp, paper and board products, nec.....	726,732	12,056	5,960	744,748
2691	Die-cut paper and board.....	97,964	1,498	252	99,714
2693	Wallpaper.....	19,005	56	340	19,401
2694	Pulp goods, pressed and molded.....	25,439	20	553	26,012
2699	Paper and board products, nec.....	584,323	10,482	4,815	599,620
27	Printing and publishing.....	6,264,558	147,592		36,412,150
2711	Newspapers.....	2,144,223	2,422		2,146,645
2721	Periodicals.....	795,543	10,173		805,716
273	Books.....	539,395	12,797		552,191
2731	Books; publishing and printing.....	394,702	12,502		407,204
2732	Book printing.....	144,692	295		144,987
2741	Miscellaneous publishing.....	149,310	1,195		150,505
2751	Commercial printing.....	1,357,820	103,953		1,461,773
2761	Lithographing.....	578,883	9,645	(³)	588,528
2771	Greeting cards.....	131,343	3,272		134,615
278	Bookbinding and related industries.....	199,271	2,670		201,940
2781	Bookbinding.....	84,741	1,319		86,060
2782	Blankbooks and paper ruling.....	47,910	871		48,781
2783	Loose-leaf binders and devices.....	49,651	463		50,114
2789	Miscellaneous bookbinding work.....	16,968	17		16,985
279	Printing trade services industries.....	368,766	1,465		370,229
2791	Typesetting.....	106,909	421		107,330
2792	Engraving and plate printing.....	43,385	278		43,663
2793	Photoengraving.....	148,876	406		149,282
2794	Electrotyping and stereotyping.....	69,594	360		69,954
28	Chemicals and products.....	9,443,629	178,661	-11,110	9,611,180
281	Inorganic chemicals.....	1,386,544	11,779	10,338	1,408,661
2811	Sulfuric acid.....	66,175	1,554	433	68,162
2812	Alkalies and chlorine.....	251,033	3,171	2,078	256,282
2819	Inorganic chemicals, nec.....	1,069,335	7,054	7,825	1,084,214
282	Organic chemicals.....	3,214,454	14,860	-18,558	3,210,756
2821	Cyclic (coal tar) crudes.....	22,179	494	-467	22,206
2822	Intermediates and organic colors.....	362,305	4,402	-3,834	362,873
2823	Plastics materials.....	583,224	2,916	-295	585,845
2824	Synthetic rubber.....	152,906	67	-10,455	142,518
2825	Synthetic fiber.....	717,226	6	-18,552	698,680
2826	Explosives.....	205,442	866	14,962	221,270
2829	Organic chemicals, nec.....	1,171,165	6,109	83	1,177,357
283	Drugs and medicines.....	1,336,562	27,706	660	1,364,928
2831	Biological products.....	36,680	1,296	1,408	39,384
2833	Medicinal chemicals (inc. botanicals)...	138,877	4,008	412	143,297
2834	Pharmaceutical preparations.....	1,161,004	22,402	-1,160	1,182,246
284	Soap and related products.....	827,668	28,938	-4,357	852,249
2841	Soap and glycerin.....	510,756	14,887	-4,230	521,413
2842	Cleaning and polishing preparations.....	288,590	13,039	-1,413	300,216
2843	Sulfonated oils and assistants.....	28,322	1,012	1,287	30,621
285	Paints and allied products.....	849,895	19,228	-1,850	867,273
2851	Paints and varnishes.....	642,656	15,857	3,292	661,805
2852	Inorganic color pigments.....	196,901	2,828	-5,207	194,522
2853	Whiting and fillers.....	10,337	543	66	10,946
286	Gum and wood chemicals.....	62,053	484	-670	61,867
2861	Hardwood distillation.....	7,419	7	404	7,830
2862	Softwood distillation.....	47,374	133	-1,342	46,165
2863	Gum naval stores.....	2,473	222	593	3,288
2865	Tanning and dyeing materials.....	4,785	122	-326	4,581

See footnotes at end of table.

Table 2B.—UNADJUSTED AND ADJUSTED VALUE ADDED FOR INDUSTRIES AND INDUSTRY GROUPS: 1954—Continued

(In thousands of dollars. For explanation of column captions see Introduction.)

Code	Industry and industry group	Value added by manufacture, unadjusted ¹	Value added by merchandising (resales)	Net change in finished products and work-in- process inventories between the beginning and end of 1954 ²	Adjusted value added ¹
	Chemicals and allied products—Con.				
287	Fertilizers.....	252,422	17,756	1,872	272,050
2871	Fertilizers.....	171,297	6,334	1,788	179,419
2872	Fertilizers, mixing only.....	81,125	11,422	84	92,631
288	Vegetable and animal oils.....	385,475	7,786	4,753	398,014
2881	Cottonseed oil mills.....	101,164	3,407	7,163	111,734
2882	Linseed oil mills.....	16,679	17	-1,908	14,788
2883	Soybean oil mills.....	106,938	2,754	-2,474	107,218
2884	Vegetable oil mills, nec.....	21,240	708	-82	21,866
2886	Grease and tallow.....	95,451	121	1,053	96,625
2887	Fatty acids.....	21,922	749	1,296	23,967
2889	Animal oils, nec.....	22,079	30	-296	21,813
289	Chemical products, nec.....	1,128,552	50,124	-3,298	1,175,378
2891	Printing ink.....	87,289	714	340	88,343
2892	Essential oils.....	5,484	195	21	5,700
2893	Toilet preparations.....	419,666	15,567	-2,758	432,475
2894	Glue and gelatin.....	64,771	2,065	963	67,799
2895	Carbon black.....	62,424	17	-2,124	60,317
2896	Compressed and liquefied gases.....	111,254	10,863	-277	121,840
2897	Insecticides and fungicides.....	62,099	9,742	-558	71,283
2898	Salt.....	48,936	108	205	49,249
2899	Chemical products, nec.....	266,627	10,853	890	278,370
29	Petroleum and coal products.....	2,582,613	37,876	1,510	2,621,999
2911	Petroleum refining.....	1,901,333	22,196	-5,509	1,918,020
293	Coke and byproducts.....	373,874	45	7,204	381,123
2931	Beehive coke ovens.....	2,494	2	2	2,498
2932	Byproduct coke ovens.....	371,380	43	7,202	378,625
295	Paving and roofing materials.....	199,584	7,057	1,112	207,753
2951	Paving mixtures and blocks.....	50,260	1,582	303	52,145
2952	Roofing felts and coatings.....	149,323	5,475	809	155,607
299	Petroleum and coal products, nec.....	107,818	8,578	-1,297	115,099
2992	Lubricants, nec.....	85,063	7,408	-1,810	90,661
2999	Petroleum and coal products, nec.....	22,754	1,170	513	24,437
30	Rubber products.....	1,903,702	56,230	-5,531	1,954,401
3011	Tires and inner tubes.....	844,545	37,039	-3,813	877,771
3021	Rubber footwear.....	107,027	792	-1,051	106,768
3031	Reclaimed rubber.....	22,043	1,407	4	23,454
3099	Rubber industries, nec.....	930,086	16,992	-671	946,407
31	Leather and leather goods.....	1,637,417	11,593	-8,206	1,640,804
3111	Leather tanning and finishing.....	264,264	785	-4,821	260,228
3121	Industrial leather belting.....	34,911	1,507	-1,035	35,383
3131	Footwear cut stock.....	87,185	1,720	-1,835	87,070
314	Footwear, except rubber.....	985,754	3,523	-898	988,379
3141	Footwear, except rubber.....	940,704	3,454	-1,197	942,961
3142	House slippers.....	45,050	69	299	45,418
315	Leather gloves.....	23,185	601	-1,068	22,718
3151	Leather dress gloves.....	13,559	409	-922	13,046
3152	Leather work gloves.....	9,626	192	146	9,672
3161	Luggage.....	89,385	766	1,162	91,313
317	Purses and small leather goods.....	125,517	952	31	126,500
3171	Handbags and purses.....	92,968	808	89	93,865
3172	Small leather goods.....	32,549	144	58	32,635
319	Miscellaneous leather goods.....	27,211	1,739	258	29,208
3192	Saddlery, harness, and whips.....	5,116	402	-42	5,476
3199	Leather goods, nec.....	22,095	1,337	300	23,732
32	Stone, clay, and glass products.....	3,821,659	50,436	-5,866	3,866,229
3211	Flat glass.....	252,313	799	-5,937	247,175
322	Pressed and blown glassware.....	674,382	2,760	1,697	678,839
3221	Glass containers.....	377,161	1,719	5,767	384,647
3229	Pressed and blown glass, nec.....	297,221	1,041	-4,070	294,192
3231	Products of purchased glass.....	192,644	3,614	-2,976	193,282
3241	Cement, hydraulic.....	528,920	613	-3,866	525,667

See footnotes at end of table.

Table 2B.—UNADJUSTED AND ADJUSTED VALUE ADDED FOR INDUSTRIES AND INDUSTRY GROUPS: 1954—Continued
(In thousands of dollars. For explanation of column captions see Introduction)

Code	Industry and industry group	Value added by manufacture, unadjusted ¹	Value added by merchandising (resales)	Net change in finished products and work-in- process inventories between the beginning and end of 1954 ²	Adjusted value added ¹
	Stone, clay, and glass products—Con.				
325	Structural clay products.....	425,356	3,236	-943	427,649
3251	Brick and hollow tile.....	183,312	1,873	-1,168	184,017
3253	Floor and wall tile.....	70,606	360	534	71,500
3254	Sewer pipe.....	55,293	280	279	55,852
3255	Clay refractories.....	88,753	581	-851	88,483
3259	Structural clay products, nec.....	27,391	142	263	27,796
326	Pottery and related products.....	260,062	2,645	-4,724	257,983
3261	Vitreous plumbing fixtures.....	76,740	1,246	-2,447	75,539
3262	Vitreous-china food utensils.....	36,184	204	25	36,413
3263	Earthenware food utensils.....	49,751	57	-1,153	48,655
3264	Porcelain electrical supplies.....	54,675	696	-1,059	54,312
3265	China decorating for the trade.....	2,148	19	15	2,182
3269	Pottery products, nec.....	40,562	423	-105	40,880
327	Concrete and plaster products.....	705,513	22,062	6,055	733,630
3271	Concrete products.....	396,344	17,243	5,105	418,692
3272	Gypsum products.....	161,898	3,339	34	165,271
3274	Lime.....	57,383	503	99	57,985
3275	Mineral wool.....	89,887	977	817	91,681
3281	Cut-stone and stone products.....	119,765	1,584	115	121,464
329	Nonmetallic mineral products, nec.....	662,699	13,123	4,713	680,535
3291	Abrasive products.....	191,850	3,685	3,448	198,983
3292	Asbestos products.....	179,864	4,473	2,590	186,927
3293	Gaskets and asbestos insulations.....	84,485	2,972	-204	87,253
3295	Minerals: ground or treated.....	89,725	811	216	90,752
3297	Nonclay refractories.....	78,101	387	-1,045	77,443
3298	Statuary and art goods.....	8,332	585	-3	8,914
3299	Nonmetallic mineral products, nec.....	30,340	210	-289	30,261
33	Primary metal industries.....	9,372,910	29,149	-11,624	9,390,435
331	Blast furnaces and steel mills.....	4,755,233	6,180	31,658	4,793,071
3312	Steel works and rolling mills.....	4,640,515	6,104	27,667	4,674,286
3313	Electrometallurgical products.....	114,718	76	3,991	118,785
332	Iron and steel foundries.....	1,339,270	3,552	-15,418	1,327,404
3321	Gray-iron foundries.....	846,271	2,774	-1,609	847,436
3322	Malleable-iron foundries.....	135,175	81	-1,994	133,262
3323	Steel foundries.....	357,824	697	-11,815	346,706
333	Primary nonferrous metals.....	614,159	174	-31,165	583,168
3331	Primary copper.....	156,981	9	-6,185	150,805
3332	Primary lead.....	30,772	...	-8,032	22,740
3333	Primary zinc.....	87,501	71	-12,011	75,561
3334	Primary aluminum.....	264,201	30	-5,287	258,944
3339	Primary nonferrous metals, nec.....	74,703	64	350	75,117
3341	Secondary nonferrous metals.....	142,329	7,874	2,210	152,413
335	Nonferrous rolling and drawing.....	860,228	3,230	16,935	880,393
3351	Copper rolling and drawing.....	420,604	1,465	847	422,916
3352	Aluminum rolling and drawing.....	339,717	135	12,497	352,349
3359	Nonferrous rolling and drawing, nec.....	99,907	1,630	3,591	105,128
3361	Nonferrous foundries.....	476,969	1,967	-6,505	472,431
339	Primary metal industries, nec.....	1,184,721	6,172	-9,339	1,181,554
3391	Iron and steel forgings.....	304,258	1,356	-11,502	294,112
3392	Wire drawing.....	465,654	2,155	1,177	468,986
3393	Welded and heavy-riveted pipe.....	204,325	1,136	2,182	207,643
3399	Primary metal industries, nec.....	210,482	1,525	-1,196	210,811
34	Fabricated metal products.....	7,596,275	136,792	-79,676	7,653,391
3411	Tin cans and other tinware.....	482,297	1,267	16,844	500,408
342	Cutlery, hand tools, and hardware.....	1,044,425	10,909	-14,654	1,040,680
3421	Cutlery.....	122,357	564	-1,972	120,949
3422	Edge tools.....	48,027	793	-248	48,572
3423	Hand tools, nec.....	162,051	4,570	-5,095	161,526
3424	Files.....	19,163	101	308	19,572
3425	Hand-saws and saw blades.....	53,246	1,344	-3,493	51,097
3429	Hardware, nec.....	639,578	3,537	-4,154	638,961
343	Heating and plumbing equipment.....	828,467	14,153	-14,703	827,917
3431	Plumbing fixtures and fittings.....	240,944	4,483	-5,964	239,463
3432	Oil burners.....	587,523	9,670	-8,739	588,454
3439	Heating and cooking apparatus, nec.....				
344	Structural metal products.....	2,203,635	72,570	-41,104	2,235,101
3441	Structural and ornamental products.....	909,782	39,823	-19,103	930,502
3442	Metal doors, sash, and trim.....	334,956	8,168	-279	342,845
3443	Boiler shop products.....	578,568	8,829	-19,251	568,146
3444	Sheet-metal work.....	380,327	15,750	-2,471	393,606

See footnotes at end of table.

Table 2B.—UNADJUSTED AND ADJUSTED VALUE ADDED FOR INDUSTRIES AND INDUSTRY GROUPS: 1954—Continued

(In thousands of dollars. For explanation of column captions see Introduction)

Code	Industry and industry group	Value added by manufacture, unadjusted ¹	Value added by merchandising (resales)	Net change in finished products and work-in- process inventories between the beginning and end of 1954 ²	Adjusted value added ¹
	Fabricated metal products—Con.				
346	Metal stamping and coating.....	1,245,074	13,649	-15,863	1,242,860
3461	Vitreous-enameled products.....	36,618	102	-549	36,171
3463	Metal stampings.....	923,939	12,842	-14,885	921,896
3465	Enameling and lacquering.....	29,992	79	-115	29,956
3466	Galvanizing.....	19,945	71	45	20,061
3467	Engraving on metal.....	20,508	94	-157	20,445
3468	Plating and polishing.....	214,070	461	-201	214,330
3471	Lighting fixtures.....	323,711	3,546	-2,606	324,651
348	Fabricated wire products.....	430,815	3,959	-3,073	431,701
3481	Nails and spikes.....	18,447	100	-156	18,391
3489	Wirework, nec.....	412,368	3,859	-2,917	413,310
349	Metal products, nec.....	1,037,849	16,739	-4,517	1,050,071
3491	Metal barrels, drums, and pails.....	85,865	1,385	-1,583	85,667
3492	Safes and vaults.....	28,974	385	224	29,583
3493	Steel springs.....	50,152	1,923	-1,307	50,768
3494	Bolts, nuts, washers, and rivets.....	411,662	8,038	1,812	421,512
3495	Screw machine products.....	246,886	977	-4,298	243,565
3496	Collapsible tubes.....	22,239	121	69	22,429
3497	Metal foil.....	62,604	187	3,066	65,857
3499	Fabricated metal products, nec.....	129,464	3,723	-2,500	130,687
35	Machinery, except electrical.....	12,338,923	218,330	-374,662	12,182,591
351	Engines and turbines.....	690,131	5,914	-45,144	650,901
3511	Steam engines and turbines.....	295,367	275	-15,941	279,701
3519	Internal combustion engines.....	394,763	5,639	-29,203	371,199
352	Tractors and farm machinery.....	1,050,370	22,343	-36,779	1,035,934
3521	Tractors.....	516,484	13,021	-20,138	509,367
3522	Farm machinery (except tractors).....	533,886	9,322	-16,641	526,567
353	Construction and mining machinery.....	901,408	21,193	-16,907	905,694
3531	Construction and mining machinery.....	582,670	14,809	-19,295	578,184
3532	Oilfield machinery and tools.....	318,737	6,384	2,388	327,509
354	Metalworking machinery.....	2,350,111	24,428	-99,608	2,274,931
3541	Machine tools.....	788,219	5,786	-50,436	743,569
3542	Metalworking machinery.....	513,279	14,229	-19,636	507,872
3544	Special dies and tools.....	697,004	2,411	-17,326	682,089
3545	Metalworking machinery attachments.....	351,607	2,002	-12,210	341,399
355	Special-industry machinery, nec.....	1,214,836	32,523	-23,821	1,223,538
3551	Food-products machinery.....	256,240	7,376	-1,837	261,779
3552	Textile machinery.....	217,560	2,421	-3,375	216,606
3553	Woodworking machinery.....	101,721	3,131	-2,327	102,525
3554	Paper-industries machinery.....	112,565	1,908	-4,670	109,803
3555	Printing-trades machinery.....	173,805	6,975	-1,814	178,966
3559	Special-industry machinery, nec.....	352,943	10,712	-9,798	353,857
356	General industrial machinery.....	1,859,054	42,963	-58,175	1,843,842
3561	Pumps and compressors.....	498,011	16,251	-18,794	495,471
3562	Elevators and escalators.....	102,106	784	-3,127	99,763
3563	Conveyors.....	286,919	4,605	-9,742	281,782
3564	Blowers and fans.....	151,272	4,005	-1,911	153,366
3565	Industrial trucks and tractors.....	123,044	4,811	-3,400	124,455
3566	Power-transmission equipment.....	393,984	5,976	-11,706	388,254
3567	Industrial furnaces and ovens.....	81,399	2,171	-2,753	80,817
3568	Mechanical stokers.....	8,976	167	241	9,384
3569	General industrial machinery, nec.....	213,340	4,193	-6,983	210,550
357	Office and store machines.....	773,881	10,730	-7,633	776,978
3571	Computing and related machines.....	412,048	1,642	-8,276	405,414
3572	Typewriters.....	131,306	2,771	2,876	136,953
3576	Scales and balances.....	44,047	249	1,239	45,535
3579	Office and store machines, nec.....	186,479	6,068	-3,472	189,075
358	Service and household machines.....	1,589,044	32,513	-71,049	1,550,508
3581	Domestic laundry equipment.....	207,395	2,068	-18,777	190,686
3582	Laundry and dry-cleaning machinery.....	54,218	3,340	-914	56,644
3583	Sewing machines.....	76,602	2,156	-8,419	70,339
3584	Vacuum cleaners.....	91,850	2,605	-4,578	89,877
3585	Refrigeration machinery.....	1,006,193	16,021	-35,388	986,826
3586	Measuring and dispensing pumps.....	63,160	1,981	-1,122	64,019
3589	Service and household machines, nec.....	89,624	4,342	-1,851	92,115
359	Miscellaneous machinery parts.....	1,910,083	25,723	-15,546	1,920,260
3591	Valves and fittings, except plbg.....	567,518	5,833	5,655	579,006
3592	Fabricated pipe and fittings.....	123,028	4,608	-5,228	122,408
3593	Ball and roller bearings.....	335,101	897	-6,605	329,393
3594	Industrial patterns and molds.....	152,049	645	-555	152,139
3599	Machine shops.....	732,387	13,740	-8,813	737,314

See footnotes at end of table.

Table 2B.—UNADJUSTED AND ADJUSTED VALUE ADDED FOR INDUSTRIES AND INDUSTRY GROUPS: 1954—Continued

(In thousands of dollars. For explanation of column captions see Introduction)

Code	Industry and industry group	Value added by manufacture, unadjusted ¹	Value added by merchandising (resales)	Net change in finished products and work-in- process inventories between the beginning and end of 1954 ²	Adjusted value added ¹
36	Electrical machinery.....	7,403,134	119,768	-223,295	7,299,607
361	Electrical industrial apparatus.....	2,795,415	33,100	-85,895	2,742,620
3611	Wiring devices and supplies.....	340,911	6,135	89	347,135
3612	Carbon and graphite products.....	62,873	132	1,574	64,579
3613	Electrical measuring instruments.....	248,478	5,540	-8,430	245,588
3614	Motors and generators.....	844,128	12,232	-38,759	817,601
3615	Transformers.....	410,245	386	-16,355	394,276
3616	Electrical control apparatus.....	700,477	5,918	-19,087	687,308
3617	Electrical welding apparatus.....	78,645	1,742	-2,893	77,494
3619	Electrical industrial apparatus, nec....	109,656	1,015	-2,034	108,637
3621	Electrical appliances.....	424,031	5,970	-3,754	426,247
3631	Insulated wire and cable.....	110,317	458	-1,586	109,189
3641	Engine electrical equipment.....	339,251	8,511	-11,139	336,623
3651	Electric lamps (bulbs).....	218,137	1,220	-3,127	216,230
366	Communication equipment.....	3,214,097	62,368	-115,515	3,160,950
3661	Radios and related products.....	2,130,207	44,286	-93,611	2,080,882
3662	Electronic tubes.....	461,904	2,313	-13,712	450,505
3663	Phonograph records.....	57,387	1,310	-8	58,689
3664	Telephone and telegraph equipment.....	497,829	11,338	-8,971	500,196
3669	Communication equipment, nec.....	66,769	3,121	787	70,677
369	Electrical products, nec.....	301,883	8,141	-2,279	307,745
3691	Storage batteries.....	127,503	308	1,071	128,882
3692	Primary batteries.....	62,388	334	-4,232	58,490
3693	X-ray and therapeutic apparatus.....	51,518	4,788	1,359	57,665
3699	Electrical products, nec.....	60,472	2,711	-477	62,706
37	Transportation equipment.....	13,925,983	80,281	-230,319	13,775,945
371	Motor vehicles and equipment.....	6,406,642	33,250	-237,360	6,202,532
3713	Truck and bus bodies.....	112,834	2,957	411	116,202
3715	Truck trailers.....	113,469	2,419	-170	115,718
3716	Automobile trailers.....	68,784	962	-571	69,175
3717	Motor vehicles and parts.....	6,111,554	26,912	-237,030	5,901,436
372	Aircraft and parts.....	6,287,620	41,189	109,157	6,437,966
3721	Aircraft.....	3,348,876	19,871	353,504	3,722,251
3722	Aircraft engines.....	1,435,443	14,575	-147,779	1,302,239
3723	Aircraft propellers.....	108,415	232	-9,192	99,455
3729	Aircraft equipment, nec.....	1,394,886	6,511	-87,376	1,314,021
373	Ships and boats.....	776,415	2,584	-21,824	757,175
3731	Ship building and repairing.....	691,908	888	-21,926	670,870
3732	Boat building and repairing.....	84,507	1,696	102	86,305
374	Railroad equipment.....	403,547	2,531	78,027	328,051
3741	Locomotives and parts.....	188,322	1,440	-25,756	164,006
3742	Railroad and street cars.....	215,224	1,091	-52,271	164,044
3751	Motorcycles and bicycles.....	41,819	675	-2,317	40,177
3799	Transportation equipment, nec.....	9,938	52	52	10,042
38	Instruments and related products.....	2,128,706	50,072	-47,165	2,131,613
3811	Scientific instruments.....	356,713	6,967	-23,534	340,146
3821	Mechanical measuring instruments.....	542,602	5,868	-5,807	542,663
3831	Optical instruments and lenses.....	86,380	592	-3,126	83,846
384	Medical instruments and supplies.....	272,020	18,285	-508	289,797
3841	Surgical and medical instruments.....	41,656	896	89	42,641
3842	Surgical appliances and supplies.....	179,209	15,721	-1,065	193,865
3843	Dental equipment and supplies.....	51,154	1,668	468	53,290
3851	Ophthalmic goods.....	110,452	301	-3,694	107,059
3861	Photographic equipment.....	561,238	15,570	-9,383	567,425
387	Watches and clocks.....	199,300	2,489	-1,113	200,676
3871	Watches and clocks.....	179,069	2,481	318	181,868
3872	Watchcases.....	20,231	8	-1,431	18,808
39	Miscellaneous manufactures ⁴	4,473,050	63,287	-143,714	4,392,623
391	Jewelry and silverware.....	297,580	6,833	-2,355	302,058
3911	Jewelry (precious metal).....	145,567	4,658	-625	149,600
3912	Jewelers' findings.....	31,369	218	-148	31,439
3913	Lapidary work.....	10,608	520	53	11,181
3914	Silverware and plated ware.....	110,034	1,437	-1,635	109,836

See footnotes at end of table.

GENERAL SUMMARY

Table 2B.—UNADJUSTED AND ADJUSTED VALUE ADDED FOR INDUSTRIES AND INDUSTRY GROUPS: 1954—Continued

(In thousands of dollars. For explanation of column captions see Introduction)

Code	Industry and industry group	Value added by manufacture, unadjusted ¹	Value added by merchandising (resales)	Net change in finished products and work-in-process inventories between the beginning and end of 1954 ²	Adjusted value added ¹
	Miscellaneous manufactures ⁴ —Con.				
393	Musical instruments and parts.....	93,072	810	331	94,213
3931	Pianos.....	32,436	13	-88	32,361
3932	Organs.....	8,664	...	-159	8,505
3933	Piano and organ parts.....	25,239	55	-108	25,186
3939	Musical instruments, nec.....	26,731	742	687	28,160
394	Toys and sporting goods.....	469,413	6,192	-7,247	468,358
3941	Games and toys, nec.....	208,484	1,968	-3,746	206,706
3942	Dolls.....	66,289	431	-369	66,351
3943	Children's vehicles.....	36,499	84	-1,122	35,461
3949	Sporting and athletic goods.....	158,153	3,709	-2,010	159,852
395	Office supplies.....	195,080	5,407	421	200,908
3951	Pens and mechanical pencils.....	83,793	326	1	84,120
3952	Lead pencils and crayons.....	29,224	652	686	30,562
3953	Hand stamps and stencils.....	32,466	2,563	-268	34,761
3954	Artists' materials.....	11,836	96	-219	11,713
3955	Carbon paper and inked ribbons.....	37,758	1,770	221	39,749
396	Costume jewelry and notions.....	316,497	5,558	-3,743	318,312
3961	Costume jewelry.....	129,239	2,694	-144	131,789
3962	Artificial flowers.....	28,952	722	250	29,924
3963	Buttons.....	36,679	1,359	181	38,219
3964	Needles, pins, and fasteners.....	121,625	783	-4,030	118,378
3971	Plastics products, nec.....	589,254	5,407	3,727	598,388
398	Miscellaneous manufactures ⁴	2,512,162	33,080	-134,848	2,410,394
3981	Brooms and brushes.....	91,737	11,410	-199	102,948
3982	Cork products.....	19,843	7	-227	19,623
3983	Matches.....	35,391	30	140	35,561
3984	Candles.....	16,486	373	153	17,012
3985	Fireworks and pyrotechnics.....	11,931	103	-493	11,541
3986	Jewelry and instrument cases.....	37,559	393	-705	37,247
3987	Lamp shades.....	21,492	157	-6	21,643
3988	Morticians' goods.....	92,024	3,037	308	95,369
3991	Beauty and barber-shop equipment.....	11,963	85	34	12,082
3992	Furs, dressed and dyed.....	23,901	27	77	24,005
3993	Signs and advertising displays.....	216,666	2,519	757	219,942
3994	Hairwork.....	7,296	239	-152	7,383
3995	Umbrellas, parasols, and canes.....	14,917	131	-459	14,589
3996	Tobacco pipes.....	7,260	388	-205	7,443
3997	Soda-fountain and bar equipment.....	10,808	534	-300	11,042
3999	Miscellaneous products, nec.....	123,805	4,600	-2,106	126,299
19--	Ordnance and accessories.....	1,769,065	9,047	-131,465	1,646,647

¹Unadjusted value added by manufacture represents value of products shipped (excluding resales) during the year less the cost of materials, supplies, fuel, electric energy, and contract work. Adjusted value added by manufacture represents value of products shipped (including resales of finished products produced by other manufacturing establishments) less cost of products, materials, supplies, fuel, electric energy and contract work plus the net change in finished products and work-in-process inventories between the beginning and end of the year. All other 1954 census tables show only the unadjusted value added by manufacture figures (see Introduction—Value Added by Manufacture).

²In 1954, establishments that reported on the short form (generally those with less than six employees) were asked to show only their total beginning and end of year inventories. The 1954 totals were prorated on the basis 1954 industry averages of the establishments that reported detailed inventory by type to obtain inventory figures representing all establishments for 1954.

³The adjusted value added figures for industries classified in Major Group 27, Printing and Publishing Industries do not reflect the change in inventories between the beginning and end of the year since inventory statistics were not collected from establishments classified in that industry group.

⁴Includes privately owned and/or operated establishments classified in Industry Group 19, "Ordnance and Accessories." Government owned and operated establishments are excluded from the annual survey and the census data.

GENERAL SUMMARY

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Table 3.—DETAILED STATISTICS FOR ALL OPERATING MANUFACTURING ESTABLISHMENTS IN THE UNITED STATES: 1954 AND 1947

(For explanation of line captions see INTRODUCTION)

Item	1954 ¹	1947 ¹	Item	1954 ¹	1947 ¹
Number of establishments, total.....	286,817	240,807	Cost and quantity of purchased fuel and electricity—Continued		
With 1-19 employees.....	196,344	157,608	Electric energy:		
With 20-99 employees.....	63,889	58,669	Purchased:		
With 100 employees and over.....	26,584	24,530	Quantity.....million kwh..	187,027	102,822
All employees:			Cost.....\$1,000..	1,725,350	954,717
Number.....	15,651,294	14,293,963	Generated.....million kwh..	69,683	43,936
Payroll.....\$1,000..	62,993,321	39,695,558	Sold:		
Production workers:			Quantity.....do....	9,044	5,811
Number.....	12,373,030	11,917,884	Value.....\$1,000..	85,830	40,815
Man-hours.....	24,341,239	24,316,465	Manufacturers' inventories:		
Wages.....\$1,000..	44,595,457	30,243,971	Beginning of year, total.....do....	42,846,663	22,432,422
Value added by manufacture.....do....	116,912,526	74,290,475	Finished products.....do....	13,794,458	6,159,703
Value added by resales.....do....	1,760,131	(NA)	Work-in-process.....do....	12,849,424	16,272,719
Number of employees for selected months:			Materials, supplies, fuel, etc.....do....	16,202,506	26,129,137
March.....	15,761,223	(NA)	End of year, total.....do....	40,340,893	7,808,637
May.....	15,482,096	(NA)	Finished products.....do....	13,540,617	11,881,153
August.....	15,633,204	(NA)	Work-in-process.....do....	11,881,153	14,918,817
November.....	15,755,468	(NA)	Materials, supplies, fuel, etc.....do....	14,918,817	6,627,029
Cost and quantity of purchased fuel and electricity:			Expenditures for plant and equipment, total.do....	8,197,261	6,003,873
Fuels consumed, total.....\$1,000..	23,211,757	2,376,801	Capital expenditures, new.....do....	7,818,155	2,122,143
Bituminous coal and anthracite:			New structures and additions to plant.do....	2,250,222	5,567,933
Quantity.....1,000 short tons..	91,457	110,869	New machinery and equipment.....do....	5,567,933	379,106
Value.....\$1,000..	676,804	692,827	Expenditures for used plant and equipment.do....	379,106	623,156
Coke:			Horsepower rating of power equipment at end of 1954:		
Quantity.....1,000 short tons..	54,371	66,171	Horsepower of prime movers and electric motors driven by purchased		
Value.....\$1,000..	867,865	729,403	energy.....1,000 hp..	108,362	(NA)
Fuel oil:			Engines, etc., driving electric generators.....do....	20,906	(NA)
Quantity.....1,000 barrels..	185,541	166,947	Engines, etc., not driving electric generators.....do....	14,673	(NA)
Value.....\$1,000..	578,220	474,945	Electric motors driven by purchased energy.....do....	72,783	(NA)
Gas:			Electric motors driven by energy generated at the establishment.....do....	19,038	(NA)
Quantity.....million cubic feet..	5,914,855	4,004,953			
Value.....\$1,000..	859,646	383,169			
Other fuels:					
Value.....do....	200,553	96,457			

NA Not available.

¹In 1954, establishments that reported on the short form (generally those with less than six employees) were asked to show only their total expenditures for new plant and equipment, total beginning and end of year inventories and total cost of materials, supplies, fuel and electric energy. Their 1954 totals were prorated on the basis of 1954 industry averages of the establishments that reported detailed inventory expenditure, fuel, and electric energy data by type to obtain figures representing all establishments for 1954. In 1947, very small establishments that accounted for approximately 1.4% of the total manufacturing employment did not report inventory expenditure and detailed fuel and electric energy data and are not represented in the 1947 figures. See 1947 Census of Manufactures, Volume I, for a measure of undercoverage by industry.

²Detail fuel items will not add to total fuel, because only the total fuels figures were collected for major industries 23 and 27.

GENERAL SUMMARY

Table 4A.—MANUFACTURING EMPLOYMENT FOR DIVISIONS, STATES AND STANDARD METROPOLITAN AREAS: 1954 AND EARLIER YEARS

(For explanation of column captions see Introduction)

Division, State, standard metropolitan area, and year ¹	Total manufacturing employment		Employment at operating manufacturing establishments		Employment at administrative offices and auxiliaries	
	Number	Payroll (\$1,000)	Number	Payroll (\$1,000)	Number	Payroll (\$1,000)
United States:						
1954.....	16,125,550	65,976,667	15,651,294	62,993,321	474,256	2,983,346
1953 ²	17,093,004	68,590,424	16,693,076	66,492,872	399,928	2,097,552
1952 ²	16,061,041	61,140,549	15,732,722	59,598,225	328,319	1,542,324
1951 ²	15,637,957	56,283,787	15,309,638	54,741,463	³ 328,319	³ 1,542,324
1950 ²	14,769,931	47,892,894	14,467,149	46,642,786	302,782	1,250,108
1949 ²	13,880,050	42,752,032	13,566,949	41,482,008	313,101	1,270,024
New England:						
1954.....	1,450,025	5,460,694	1,431,300	5,356,133	18,725	104,561
1953 ²	1,588,828	5,958,283	1,571,308	5,873,319	17,520	84,964
1952 ²	1,503,282	5,404,018	1,482,089	5,318,226	³ 21,193	³ 85,792
1951 ²	1,496,584	5,126,358	1,475,391	5,040,566	21,193	85,792
1950 ²	1,433,359	4,397,007	1,418,010	4,337,683	15,349	59,324
1949 ²	1,345,130	3,916,903	1,323,249	3,839,403	21,881	77,500
Maine:						
1954.....	104,507	325,048	104,025	322,158	482	2,890
1953 ²	110,187	354,377	109,351	350,777	836	3,600
1952 ²	108,321	323,033	107,590	320,517	³ 731	³ 2,516
1951 ²	107,402	307,960	106,671	305,444	731	2,516
1950 ²	108,309	281,757	108,050	280,357	259	1,400
1949 ²	102,134	258,557	101,458	256,185	676	2,372
New Hampshire:						
1954.....	77,332	246,719	77,071	245,346	261	1,373
1953 ²	88,771	272,833	87,866	270,025	905	2,808
1952 ²	84,677	257,287	83,856	254,307	³ 821	³ 2,980
1951 ²	85,851	246,864	85,030	243,884	821	2,980
1950 ²	80,832	213,519	80,462	212,507	370	1,012
1949 ²	77,924	193,581	76,975	191,437	949	2,144
Vermont:						
1954.....	36,112	123,577	35,899	122,829	213	748
1953 ²	38,811	143,327	38,811	143,327	(⁴)	(⁴)
1952 ²	42,180	150,042	42,180	150,042	(⁴)	(⁴)
1951 ²	42,334	141,867	42,334	141,867	(⁴)	(⁴)
1950 ²	40,636	115,829	40,636	115,829	(⁴)	(⁴)
1949 ²	34,063	87,342	33,478	85,618	585	1,724
Massachusetts:						
1954.....	686,997	2,582,486	677,140	2,528,296	9,857	54,190
1953 ²	741,457	2,743,880	733,868	2,706,164	7,589	37,716
1952 ²	705,054	2,525,229	693,806	2,480,205	³ 11,248	³ 45,024
1951 ²	713,931	2,449,429	702,683	2,404,405	11,248	45,024
1950 ²	696,777	2,157,181	688,603	2,126,009	8,174	31,172
1949 ²	659,807	1,942,312	649,700	1,907,132	10,107	35,180
Rhode Island:						
1954.....	125,041	431,889	123,970	425,365	1,071	6,524
1953 ²	152,019	529,587	151,007	524,351	1,012	5,236
1952 ²	131,698	446,880	130,485	442,472	³ 1,213	³ 4,408
1951 ²	134,062	424,480	132,849	420,072	1,213	4,408
1950 ²	135,473	390,904	134,043	386,468	1,430	4,436
1949 ²	125,763	352,661	124,495	348,105	1,268	4,556
Connecticut:						
1954.....	420,034	1,750,972	413,193	1,712,136	6,841	38,836
1953 ²	457,583	1,914,279	450,405	1,878,675	7,178	35,604
1952 ²	431,352	1,701,547	424,172	1,670,683	³ 7,180	³ 30,864
1951 ²	413,004	1,555,758	405,824	1,524,894	7,180	30,864
1950 ²	371,332	1,237,817	366,216	1,216,513	5,116	21,304
1949 ²	345,439	1,082,450	337,143	1,050,926	8,296	31,524
Middle Atlantic:						
1954.....	4,291,292	17,873,037	4,105,248	16,656,158	186,044	1,216,879
1953 ²	4,498,034	18,291,234	4,362,051	17,572,382	135,983	718,852
1952 ²	4,277,177	16,524,299	4,167,399	15,992,791	³ 109,778	³ 531,508
1951 ²	4,174,147	15,366,321	4,064,369	14,834,813	109,778	531,508
1950 ²	4,006,194	13,244,655	3,905,535	12,816,031	100,659	428,624
1949 ²	3,850,592	12,205,084	3,737,368	11,728,888	113,224	476,196
New York:						
1954.....	2,008,072	8,472,625	1,895,982	7,734,388	112,090	738,237
1953 ²	2,053,428	8,419,085	1,977,426	7,996,237	76,002	422,848
1952 ²	1,950,032	7,623,909	1,889,036	7,321,717	³ 60,996	³ 302,192
1951 ²	1,877,226	7,013,445	1,816,230	6,711,253	60,996	302,192
1950 ²	1,829,479	6,170,564	1,762,624	5,878,192	66,855	292,372
1949 ²	1,768,626	5,750,091	1,704,398	5,474,015	64,228	276,076
New Jersey:						
1954.....	810,525	3,489,145	787,593	3,352,425	22,932	136,720
1953 ²	853,101	3,583,419	835,544	3,497,451	17,557	85,968
1952 ²	792,016	3,231,418	778,328	3,171,990	³ 13,688	³ 59,428
1951 ²	776,563	2,960,607	762,875	2,901,179	13,688	59,428
1950 ²	730,650	2,531,320	721,493	2,498,816	9,157	32,504
1949 ²	698,704	2,292,008	684,903	2,237,620	13,801	54,388

See footnotes at end of table.

Table 4A.—MANUFACTURING EMPLOYMENT FOR DIVISIONS, STATES AND STANDARD METROPOLITAN AREAS: 1954 AND EARLIER YEARS—Continued

(For explanation of column captions see Introduction)

Division, State, standard metropolitan area, and year ¹	Total manufacturing employment		Employment at operating manufacturing establishments		Employment at administrative offices and auxiliaries	
	Number	Payroll (\$1,000)	Number	Payroll (\$1,000)	Number	Payroll (\$1,000)
Middle Atlantic—Continued						
Pennsylvania:						
1954.....	1,472,695	5,911,267	1,421,673	5,569,345	51,022	341,922
1953 ²	1,591,505	6,288,730	1,549,081	6,078,694	42,424	210,036
1952 ²	1,535,129	5,668,972	1,500,035	5,499,084	³ 35,094	³ 169,888
1951 ²	1,520,358	5,392,269	1,485,264	5,222,381	35,094	169,888
1950 ²	1,446,065	4,542,771	1,421,418	4,439,023	24,647	103,748
1949 ²	1,383,262	4,162,985	1,348,067	4,017,253	35,195	145,732
East North Central:						
1954.....	4,604,516	20,925,690	4,459,829	20,003,625	144,687	922,065
1953 ²	5,134,894	22,848,598	5,000,314	22,124,246	134,580	724,352
1952 ²	4,732,252	20,073,035	4,628,971	19,568,947	³ 103,281	³ 504,088
1951 ²	4,688,445	18,709,529	4,585,164	18,205,441	103,281	504,088
1950 ²	4,427,093	15,991,647	4,328,066	15,559,155	99,027	432,492
1949 ²	4,106,312	13,953,890	4,008,911	13,542,806	97,401	411,084
Ohio:						
1954.....	1,296,319	5,841,664	1,267,542	5,655,721	28,777	185,943
1953 ²	1,420,095	6,352,819	1,383,971	6,166,115	36,124	186,704
1952 ²	1,336,020	5,668,114	1,311,233	5,548,298	³ 24,787	³ 119,816
1951 ²	1,302,678	5,236,937	1,277,891	5,117,121	24,787	119,816
1950 ²	1,192,224	4,253,902	1,170,623	4,162,022	21,601	91,880
1949 ²	1,103,302	3,688,386	1,078,746	3,585,634	24,556	102,752
Indiana:						
1954.....	587,782	2,532,422	582,803	2,504,411	4,979	28,011
1953 ²	686,736	2,903,853	679,399	2,869,657	7,337	34,196
1952 ²	611,687	2,444,256	604,949	2,419,456	³ 6,738	³ 24,800
1951 ²	598,303	2,285,724	591,565	2,260,924	6,738	24,800
1950 ²	563,730	1,958,091	558,370	1,938,651	5,360	19,440
1949 ²	512,956	1,680,020	506,350	1,658,144	6,606	21,876
Illinois:						
1954.....	1,224,634	5,430,192	1,177,933	5,137,353	46,701	292,839
1953 ²	1,316,089	5,668,441	1,284,031	5,495,229	32,058	173,212
1952 ²	1,255,635	5,156,159	1,234,323	5,050,519	³ 21,312	³ 105,640
1951 ²	1,241,013	4,814,799	1,219,701	4,709,159	21,312	105,640
1950 ²	1,187,296	4,150,983	1,163,316	4,042,835	23,980	108,148
1949 ²	1,132,352	3,820,173	1,103,973	3,697,953	28,379	122,220
Michigan:						
1954.....	1,056,564	5,252,352	1,001,630	4,891,749	54,934	360,603
1953.....	1,231,334	5,919,426	1,179,258	5,623,046	52,076	296,380
1952 ²	1,063,873	4,932,989	1,021,265	4,708,765	³ 42,608	³ 224,224
1951 ²	1,084,934	4,604,503	1,042,326	4,380,279	42,608	224,224
1950 ²	1,054,441	4,144,440	1,012,145	3,952,496	42,296	191,944
1949 ²	955,118	3,479,699	922,362	3,333,103	32,756	146,596
Wisconsin:						
1954.....	439,215	1,869,059	429,919	1,814,390	9,296	54,669
1953 ²	480,640	2,004,059	473,655	1,970,199	6,985	33,860
1952 ²	465,037	1,871,517	457,201	1,841,909	³ 7,836	³ 29,608
1951 ²	461,517	1,767,566	453,681	1,737,958	7,836	29,608
1950 ²	429,402	1,484,231	423,612	1,463,151	5,790	21,080
1949 ²	402,584	1,285,612	397,480	1,267,972	5,104	17,640
West North Central:						
1954.....	963,778	3,863,288	939,357	3,731,449	24,421	131,839
1953 ²	999,245	3,903,432	978,919	3,808,732	20,326	94,700
1952 ²	962,179	3,557,219	946,917	3,496,043	³ 15,262	³ 61,176
1951 ²	896,819	3,093,731	881,557	3,032,555	15,262	61,176
1950 ²	828,111	2,586,487	811,926	2,529,007	16,185	57,480
1949 ²	791,772	2,342,420	778,589	2,297,964	13,183	44,456
Minnesota:						
1954.....	208,506	865,254	203,022	834,888	5,484	30,366
1953 ²	214,494	868,804	207,648	834,484	6,846	34,320
1952 ²	211,899	804,582	208,199	786,442	³ 3,700	³ 18,140
1951 ²	200,601	729,351	196,901	711,211	3,700	18,140
1950 ²	186,123	612,726	180,864	593,914	5,259	18,812
1949 ²	179,984	568,293	177,581	558,893	2,403	9,400
Iowa:						
1954.....	163,954	649,147	162,705	643,980	1,249	5,167
1953 ²	166,274	642,766	165,773	640,194	501	2,572
1952 ²	159,732	594,970	158,783	591,782	³ 949	³ 3,188
1951 ²	157,438	547,744	156,489	544,556	949	3,188
1950 ²	147,429	451,342	146,929	449,862	500	1,480
1949 ²	140,689	416,922	140,020	414,982	669	1,940
Missouri:						
1954.....	382,430	1,500,348	368,479	1,420,103	13,951	80,245
1953 ²	405,061	1,552,445	392,950	1,499,153	12,111	53,292
1952 ²	378,258	1,360,676	369,108	1,325,108	³ 9,150	³ 35,568
1951 ²	358,318	1,177,911	349,168	1,142,343	9,150	35,568
1950 ²	340,239	1,037,085	330,813	1,003,357	9,426	33,728
1949 ²	325,705	941,925	317,662	914,845	8,043	27,080

See footnotes at end of table.

GENERAL SUMMARY

Table 4A.—MANUFACTURING EMPLOYMENT FOR DIVISIONS, STATES AND STANDARD METROPOLITAN AREAS: 1954 AND EARLIER YEARS—Continued

(For explanation of column captions see Introduction)

Division, State, standard metropolitan area, and year ¹	Total manufacturing employment		Employment at operating manufacturing establishments		Employment at administrative offices and auxiliaries	
	Number	Payroll (\$1,000)	Number	Payroll (\$1,000)	Number	Payroll (\$1,000)
West North Central—Continued						
North Dakota:						
1954.....	5,613	19,228	5,604	19,189	9	39
1953 ²	7,814	24,379	7,796	24,175	18	204
1952 ²	5,896	16,745	5,896	16,745	(4)	(4)
South Dakota:						
1954.....	11,550	41,173	11,531	41,096	19	77
1953 ²	10,441	37,038	10,441	37,038	(4)	(4)
1952 ²	11,554	41,937	11,554	41,937	(4)	(4)
Nebraska:						
1954.....	60,290	227,651	56,996	213,732	3,294	13,919
1953 ²	57,588	210,973	57,424	210,073	164	900
1952 ²	53,063	186,180	53,031	185,996	³ 32	³ 184
1951 ²	50,683	166,980	50,651	166,796	32	184
1950 ²	48,025	147,793	47,984	147,617	41	176
1949 ²	45,651	124,186	45,276	123,114	375	1,072
Kansas:						
1954.....	131,432	560,483	131,017	558,457	415	2,026
1953 ²	137,572	567,027	136,886	563,615	686	3,412
1952 ²	141,777	552,129	140,346	548,033	³ 1,431	³ 4,096
1951 ²	113,305	421,230	111,874	417,134	1,431	4,096
1950 ²	88,389	285,855	87,622	283,031	767	2,824
1949 ²	83,413	248,042	82,090	243,790	1,323	4,252
South Atlantic:						
1954.....	1,778,959	5,702,560	1,745,372	5,480,901	33,587	221,659
1953 ²	1,816,621	5,670,176	1,783,099	5,493,716	33,522	176,460
1952 ²	1,751,671	5,152,447	1,722,184	5,010,227	³ 29,487	³ 142,220
1951 ²	1,697,457	4,784,021	1,667,970	4,641,801	29,487	142,220
1950 ²	1,626,884	4,146,930	1,604,261	4,066,254	22,623	80,676
1949 ²	1,521,782	3,680,685	1,502,335	3,611,821	19,447	68,864
Delaware:						
1954.....	54,530	267,354	39,418	151,269	15,112	116,085
1953 ²	58,550	255,801	43,493	164,641	15,057	91,160
1952 ²	58,670	239,593	45,367	164,913	³ 13,303	³ 74,680
1951 ²	56,809	217,657	43,506	142,977	13,303	74,680
Maryland:						
1954.....	255,452	1,002,067	253,144	987,559	2,308	14,508
1953 ²	261,948	1,014,618	259,303	1,001,510	2,645	13,108
1952 ²	260,678	917,091	258,339	907,367	³ 2,339	³ 9,724
1951 ²	250,404	851,382	248,065	841,658	2,339	9,724
1950 ²	222,439	680,318	220,505	672,354	1,934	7,964
1949 ²	210,981	618,006	209,577	612,450	1,404	5,556
District of Columbia:						
1954.....	21,723	97,011	20,399	90,083	1,324	6,928
1953 ²	19,499	90,075	19,228	88,259	271	1,816
1952 ²	18,008	72,049	17,930	71,481	³ 78	³ 568
1951 ²	17,253	66,202	17,175	65,634	78	568
1950 ²	17,282	61,981	17,118	60,905	164	1,076
1949 ²	17,026	59,770	16,854	58,618	172	1,152
Virginia:						
1954.....	242,864	777,020	239,733	760,454	3,131	16,566
1953 ²	256,057	791,625	253,796	781,301	2,261	10,324
1952 ²	240,998	711,337	238,446	701,957	³ 2,552	³ 9,380
1951 ²	231,750	643,333	229,198	633,953	2,552	9,380
1950 ²	225,133	573,968	222,103	563,404	3,030	10,564
1949 ²	214,037	514,428	212,516	509,168	1,521	5,260
West Virginia:						
1954.....	122,390	494,893	118,568	472,560	3,822	22,333
1953 ²	133,923	522,965	130,032	502,625	3,891	20,340
1952 ²	134,346	478,112	131,014	462,132	³ 3,332	³ 15,980
1951 ²	137,941	467,306	134,609	451,326	3,332	15,980
1950 ²	129,242	396,445	124,420	376,849	4,822	19,596
1949 ²	125,133	363,576	120,550	345,308	4,583	18,268
North Carolina:						
1954.....	434,934	1,185,629	430,001	1,157,416	4,933	28,213
1953 ²	446,265	1,201,031	442,719	1,185,639	3,546	15,392
1952 ²	418,588	1,088,813	414,943	1,071,309	³ 3,645	³ 17,504
1951 ²	413,421	1,037,226	409,776	1,019,722	3,645	17,504
1950 ²	408,295	957,214	405,583	947,406	2,712	9,808
1949 ²	368,816	815,128	366,059	806,324	2,757	8,804
South Carolina:						
1954.....	219,826	634,743	219,447	632,709	379	2,034
1953 ²	223,396	612,971	221,860	606,907	1,536	6,064
1952 ²	207,365	561,854	206,182	558,026	³ 1,183	³ 3,828
1951 ²	200,864	524,283	199,681	520,455	1,183	3,828
1950 ²	195,954	465,617	194,408	461,773	1,546	3,844
1949 ²	189,207	424,266	187,678	420,682	1,529	3,584

See footnotes at end of table.

GENERAL SUMMARY

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Table 4A.—MANUFACTURING EMPLOYMENT FOR DIVISIONS, STATES AND STANDARD METROPOLITAN AREAS: 1954 AND EARLIER YEARS—Continued

(For explanation of column captions see Introduction)

Division, State, standard metropolitan area, and year ¹	Total manufacturing employment		Employment at operating manufacturing establishments		Employment at administrative offices and auxiliaries	
	Number	Payroll (\$1,000)	Number	Payroll (\$1,000)	Number	Payroll (\$1,000)
South Atlantic--Continued						
Georgia:						
1954.....	303,278	854,522	301,290	843,557	1,988	10,965
1953 ²	306,367	848,075	303,017	834,347	3,350	13,728
1952 ²	294,506	751,043	292,342	742,243	³ 2,164	³ 8,800
1951 ²	284,151	694,781	281,987	685,981	2,164	8,800
1950 ²	292,273	650,897	288,926	640,269	3,347	10,628
1949 ²	270,612	557,949	268,335	550,377	2,277	7,572
Florida:						
1954.....	123,958	389,318	123,368	385,291	590	4,027
1951 ²	104,864	281,851	103,973	280,095	891	1,756
1950 ²	91,397	224,139	90,270	221,859	1,127	2,280
1949 ²	84,227	204,334	83,691	202,366	536	1,968
East South Central:						
1954.....	729,947	2,366,908	714,758	2,288,840	15,189	78,068
1953 ²	747,148	2,372,074	737,892	2,329,018	9,256	43,056
1952 ²	699,863	2,072,078	689,973	2,038,558	³ 9,890	³ 33,520
1951 ²	684,156	1,888,841	674,266	1,855,321	9,890	33,520
1950 ²	649,792	1,647,324	640,233	1,617,376	9,559	29,948
1949 ²	603,165	1,435,192	594,336	1,407,008	8,829	28,184
Kentucky:						
1954.....	151,113	553,203	146,434	529,206	4,679	23,997
1953 ²	150,319	532,300	148,977	524,492	1,342	7,808
1952 ²	145,213	475,770	143,599	469,382	³ 1,614	³ 6,388
1951 ²	147,323	463,968	145,709	457,580	1,614	6,388
1950 ²	138,444	391,730	136,727	385,478	1,717	6,252
1949 ²	124,936	336,009	123,711	331,713	1,225	4,296
Tennessee:						
1954.....	267,496	882,644	260,599	850,175	6,897	32,469
1953 ²	275,276	903,478	272,617	891,674	2,659	11,804
1952 ²	261,662	799,101	258,279	788,677	³ 3,383	³ 10,424
1951 ²	240,987	666,628	237,604	656,204	3,383	10,424
1950 ²	226,372	585,306	222,990	576,346	3,382	8,960
1949 ²	216,700	517,817	213,090	507,329	3,610	10,488
Alabama:						
1954.....	220,077	690,015	217,084	672,109	2,993	17,906
1953 ²	228,179	697,865	223,139	675,265	5,040	22,600
1952 ²	213,010	608,102	209,197	593,046	³ 3,813	³ 15,056
1951 ²	215,763	588,017	211,950	572,961	3,813	15,056
1950 ²	211,162	524,322	207,544	511,374	3,618	12,948
1949 ²	193,878	461,598	190,261	449,154	3,617	12,444
Mississippi:						
1954.....	91,261	241,046	90,641	237,350	620	3,696
1953 ²	93,374	238,431	93,159	237,587	215	844
1952 ²	79,978	189,105	78,898	187,453	³ 1,080	³ 1,652
1951 ²	80,083	170,228	79,003	168,576	1,080	1,652
1950 ²	73,814	145,966	72,972	144,178	842	1,788
1949 ²	67,651	119,768	67,274	118,812	377	956
West South Central:						
1954.....	734,003	2,793,741	713,365	2,678,359	20,638	115,382
1953 ²	739,798	2,718,968	716,645	2,599,284	23,153	119,684
1952 ²	676,186	2,355,825	662,136	2,291,581	³ 14,050	³ 64,244
1951 ²	649,906	2,087,930	635,856	2,023,686	14,050	64,244
1950 ²	603,787	1,741,591	585,924	1,669,811	17,863	71,780
1949 ²	574,663	1,584,593	556,462	1,515,529	18,201	69,064
Arkansas:						
1954.....	79,196	222,293	78,391	218,473	805	3,820
1953 ²	80,525	219,463	79,575	215,643	950	3,820
1952 ²	80,331	208,802	79,702	206,654	³ 629	³ 2,148
1951 ²	75,987	181,739	75,358	179,591	629	2,148
1950 ²	72,926	157,190	72,090	154,558	836	2,632
1949 ²	62,846	125,250	62,252	123,306	594	1,944
Louisiana:						
1954.....	146,330	538,969	144,757	531,639	1,573	7,330
1953 ²	152,549	533,448	150,808	526,168	1,741	7,280
1952 ²	135,446	459,114	134,147	454,370	³ 1,299	³ 4,744
1951 ²	135,354	415,921	134,055	411,177	1,299	4,744
1950 ²	126,035	358,251	123,952	350,751	2,083	7,500
1949 ²	119,719	316,725	117,246	311,369	2,473	5,356
Oklahoma:						
1954.....	89,257	363,627	79,851	307,902	9,406	55,725
1953 ²	86,256	337,352	77,455	291,280	8,801	46,072
1952 ²	77,222	266,783	72,172	243,191	³ 5,050	³ 23,592
1951 ²	69,122	229,371	64,072	205,779	5,050	23,592
1950 ²	63,494	187,657	58,062	163,185	5,432	24,472
1949 ²	63,329	184,525	57,365	158,585	5,964	25,940

See footnotes at end of table.

GENERAL SUMMARY

Table 4A.—MANUFACTURING EMPLOYMENT FOR DIVISIONS, STATES AND STANDARD METROPOLITAN AREAS: 1954 AND EARLIER YEARS—Continued
(For explanation of column captions see Introduction)

Division, State, standard metropolitan area, and year ¹	Total manufacturing employment		Employment at operating manufacturing establishments		Employment at administrative offices and auxiliaries	
	Number	Payroll (\$1,000)	Number	Payroll (\$1,000)	Number	Payroll (\$1,000)
West South Central—Continued						
Texas:						
1954.....	419,218	1,668,851	410,364	1,620,344	8,854	48,507
1953 ²	420,468	1,628,705	408,807	1,566,193	11,661	62,512
1952 ²	383,187	1,421,126	376,115	1,387,366	³ 7,072	³ 33,760
1951 ²	369,443	1,260,899	362,371	1,227,139	7,072	33,760
1950 ²	341,332	1,038,493	331,820	1,001,317	9,512	37,176
1949 ²	328,769	958,093	319,599	922,269	9,170	35,824
Mountain:						
1954.....	190,674	766,726	187,493	749,586	3,181	17,140
1953 ²	187,072	743,945	183,925	728,013	3,147	15,932
1952 ²	174,914	655,387	172,878	644,895	³ 2,036	³ 10,492
1951 ²	166,772	588,370	164,736	577,878	2,036	10,492
1950 ²	157,144	486,235	154,709	475,231	2,435	11,004
1949 ²	144,888	433,435	142,600	422,955	2,288	10,480
Montana:						
1954.....	18,519	72,090	18,373	71,289	146	801
1953 ²	17,768	71,975	17,691	71,599	77	376
1952 ²	17,414	66,902	17,295	66,610	³ 119	³ 292
1951 ²	17,221	61,244	17,102	60,952	119	292
1950 ²	17,040	53,938	16,645	51,942	395	1,996
1949 ²	16,567	49,812	16,057	47,316	510	2,496
Idaho:						
1954.....	23,895	90,742	23,722	89,507	173	1,235
1953 ²	23,482	87,781	23,218	86,173	264	1,608
1952 ²	20,016	83,165	19,623	81,149	³ 393	³ 2,016
1951 ²	19,706	78,837	19,313	76,821	393	2,016
1950 ²	15,832	56,860	15,815	56,784	17	76
1949 ²	15,379	50,754	15,250	50,082	129	672
Wyoming:						
1954.....	6,261	26,890	6,228	26,774	33	116
1953 ²	7,213	33,601	6,981	32,293	232	1,308
1952 ²	5,469	23,806	5,469	23,806	(⁴)	(⁴)
1951 ²	5,874	21,709	5,874	21,709	(⁴)	(⁴)
1950 ²	7,099	22,834	7,082	22,734	17	100
1949 ²	6,255	20,453	6,233	20,353	22	100
Colorado:						
1954.....	65,002	257,286	63,041	247,110	1,961	10,176
1953 ²	60,220	237,137	58,864	230,377	1,356	6,760
1952 ²	59,390	213,998	58,577	209,178	³ 813	³ 4,820
1951 ²	58,157	196,178	57,344	191,358	813	4,820
1950 ²	56,508	166,105	55,657	161,773	851	4,332
1949 ²	50,593	149,903	49,565	145,271	1,028	4,632
New Mexico:						
1954.....	15,061	62,718	14,955	62,213	106	505
1953 ²	12,753	57,539	12,737	57,479	16	60
1952 ²	15,384	60,599	15,364	60,515	³ 20	³ 84
1951 ²	14,741	50,507	14,721	50,423	20	84
1950 ²	13,529	39,006	13,514	38,950	15	56
1949 ²	8,809	24,786	8,740	24,454	69	332
Arizona:						
1954.....	26,269	111,072	26,090	109,868	179	1,204
1953 ²	24,066	99,998	23,565	97,778	501	2,220
1952 ²	21,343	80,695	20,968	79,103	³ 375	³ 1,592
1951 ²	17,790	62,423	17,415	60,831	375	1,592
1950 ²	14,721	49,749	14,695	49,621	26	128
1949 ²	14,257	43,971	14,252	43,947	5	24
Utah:						
1954.....	29,947	120,623	29,364	117,520	583	3,103
1953 ²	35,045	126,890	34,344	123,290	701	3,600
1952 ²	32,561	112,541	32,245	110,853	³ 316	³ 1,688
1951 ²	30,377	106,961	30,061	105,273	316	1,688
1950 ²	29,377	86,235	28,445	82,443	932	3,792
1949 ²	29,788	82,790	29,296	80,670	492	2,120
Nevada:						
1954.....	5,717	25,301	5,717	25,301	(⁴)	(⁴)
1953 ²	6,525	29,024	6,525	29,024	(⁴)	(⁴)
1952 ²	3,337	13,681	3,337	13,681	(⁴)	(⁴)
1951 ²	2,906	10,511	2,906	10,511	(⁴)	(⁴)
1950 ²	3,038	11,508	2,856	10,984	182	524
1949 ²	3,240	10,966	3,207	10,862	33	104
Pacific:						
1954.....	1,382,265	6,223,711	1,354,481	6,047,958	27,784	175,753
1953 ²	1,381,395	6,083,714	1,358,954	5,964,162	22,441	119,552
1952 ²	1,283,517	5,346,241	1,260,175	5,236,957	³ 23,342	³ 109,284
1951 ²	1,183,671	4,638,686	1,160,329	4,529,402	23,342	109,284
1950 ²	1,037,169	3,654,507	1,018,087	3,575,727	19,082	78,780
1949 ²	941,767	3,199,830	923,120	3,115,634	18,647	84,196

See footnotes at end of table.

Table 4A.—MANUFACTURING EMPLOYMENT FOR DIVISIONS, STATES AND STANDARD METROPOLITAN AREAS: 1954 AND EARLIER YEARS—Continued
(For explanation of column captions see Introduction)

Division, State, standard metropolitan area, and year ¹	Total manufacturing employment		Employment at operating manufacturing establishments		Employment at administrative offices and auxiliaries	
	Number	Payroll (\$1,000)	Number	Payroll (\$1,000)	Number	Payroll (\$1,000)
Pacific—Continued						
Washington:						
1954.....	194,171	854,686	192,354	842,660	1,817	12,026
1953 ²	190,214	823,147	188,708	814,495	1,506	8,652
1952 ²	201,008	813,115	199,559	806,575	³ 1,449	³ 6,540
1951 ²	193,530	760,374	192,081	753,834	1,449	6,540
1950 ²	162,661	566,785	161,047	560,249	1,614	6,536
1949 ²	157,695	519,379	156,399	512,987	1,296	6,392
Oregon:						
1954.....	135,309	566,671	134,343	561,580	966	5,091
1953 ²	132,385	556,923	131,365	550,555	1,020	6,368
1952 ²	137,940	546,482	136,589	539,818	³ 1,351	³ 6,664
1951 ²	133,101	502,749	131,750	496,085	1,351	6,664
1950 ²	119,419	409,068	118,722	406,472	697	2,596
1949 ²	111,846	365,108	111,060	362,300	786	2,808
California:						
1954.....	1,052,785	4,802,353	1,027,784	4,643,717	25,001	158,636
1953 ²	1,058,796	4,703,644	1,038,881	4,599,112	19,915	104,532
1952 ²	944,569	3,986,644	924,027	3,890,564	³ 20,542	³ 96,080
1951 ²	857,040	3,375,563	836,498	3,279,483	20,542	96,080
1950 ²	755,089	2,678,654	738,318	2,609,006	16,771	69,648
1949 ²	672,226	2,315,343	655,661	2,240,347	16,565	74,996
STANDARD METROPOLITAN AREAS—1954 ⁵						
Akron.....	90,946	421,245	85,905	389,094	5,041	32,151
Albany—Schenectady—Troy.....	85,882	403,142	71,981	323,518	¹³ 901	79,624
Albuquerque.....	9,378	43,988	9,281	43,525	97	463
Allentown—Bethlehem—Easton.....	94,121	353,338	90,265	323,179	3,856	30,159
Altoona.....	8,460	26,156	8,417	25,939	43	217
Amarillo.....	3,228	12,901	3,147	12,429	81	472
Asheville.....	11,086	35,411	11,071	35,391	15	20
Atlanta.....	79,839	294,965	78,500	287,673	1,339	7,292
Atlantic City.....	6,202	18,428	6,202	18,428	...	...
Augusta.....	27,764	112,133	27,748	112,011	16	122
Austin.....	3,388	11,003	3,388	11,003	...	...
Baltimore.....	190,541	792,400	188,689	780,813	1,852	11,587
Baton Rouge.....	18,909	98,547	18,882	98,399	27	148
Bay City.....	10,691	46,787	10,691	46,787	...	...
Beaumont—Port Arthur.....	25,650	126,452	25,445	125,098	205	1,354
Binghamton.....	42,147	165,368	40,502	159,561	1,645	5,807
Birmingham.....	60,663	253,862	57,762	236,624	2,901	17,238
Boston.....	286,612	1,142,842	280,274	1,106,467	6,338	36,375
Bridgeport.....	67,545	293,634	64,873	279,486	2,672	14,168
Brockton.....	20,599	66,348	19,807	63,614	792	2,734
Buffalo.....	203,357	946,591	200,801	933,873	2,556	12,718
Canton.....	56,925	248,897	56,762	247,442	163	1,455
Cedar Rapids.....	18,593	75,970	18,457	75,434	136	536
Charleston, South Carolina.....	9,282	27,150	9,233	26,930	49	220
Charleston, West Virginia.....	25,429	128,159	23,427	116,565	2,002	11,594
Charlotte.....	22,375	73,374	21,635	68,387	740	4,987
Chattanooga.....	43,019	145,186	42,759	143,569	260	1,617
Chicago.....	983,460	4,513,579	942,819	4,256,393	40,641	257,186
Cincinnati.....	154,519	691,713	151,317	673,358	3,202	18,355
Cleveland.....	301,714	1,445,738	291,037	1,376,234	10,677	69,504
Columbia.....	7,697	20,870	7,691	20,847	6	23
Columbus, Georgia.....	17,976	44,097	17,913	43,788	63	309
Columbus, Ohio.....	74,016	319,530	72,936	314,521	1,080	5,009
Corpus Christi.....	6,910	29,328	6,721	28,241	189	1,087
Dallas.....	76,163	310,597	72,770	290,812	3,393	19,785
Davenport—Rock Island—Moline.....	36,021	160,156	35,284	154,388	737	5,768
Dayton.....	98,328	470,916	97,117	463,019	1,211	7,897
Decatur.....	12,217	53,530	12,184	52,880	33	650
Denver.....	42,583	176,666	40,774	167,289	1,809	9,377
Des Moines.....	22,809	95,717	22,482	94,592	327	1,125
Detroit.....	590,432	3,116,837	538,223	2,773,349	52,209	343,488
Dubuque.....	10,326	42,495	10,322	42,446	4	49
Duluth—Superior.....	12,740	49,739	12,724	49,617	16	122
Durham.....	13,213	40,435	13,076	39,598	137	837
El Paso.....	9,465	29,780	9,232	28,534	233	1,246
Erie.....	40,647	173,049	40,488	171,969	159	1,080
Evansville.....	32,623	137,448	32,562	137,178	61	270
Fall River.....	27,005	74,066	26,990	73,942	15	124
Flint.....	75,414	387,722	75,410	387,681	4	41
Fort Smith.....	6,376	19,472	6,376	19,472	...	...

See footnotes at end of table.

GENERAL SUMMARY

Table 4A.—MANUFACTURING EMPLOYMENT FOR DIVISIONS, STATES AND STANDARD METROPOLITAN AREAS: 1954 AND EARLIER YEARS—Continued
(For explanation of column captions see Introduction)

Division, State, standard metropolitan area, and year ¹	Total manufacturing employment		Employment at operating manufacturing establishments		Employment at administrative offices and auxiliaries	
	Number	Payroll (\$1,000)	Number	Payroll (\$1,000)	Number	Payroll (\$1,000)
STANDARD METROPOLITAN AREAS—Continued						
Fort Wayne.....	35,187	162,240	33,012	149,898	2,175	12,342
Fort Worth.....	48,837	212,871	48,367	211,122	470	1,749
Fresno.....	12,786	50,923	12,747	50,734	39	189
Gadsden.....	12,760	47,483	12,760	47,483	...	...
Galveston.....	10,910	54,437	10,910	54,437	...	...
Grand Rapids.....	52,372	244,845	52,337	244,270	35	575
Green Bay.....	11,226	48,055	11,071	47,193	155	862
Greensboro—High Point.....	38,588	112,415	37,380	104,332	1,208	8,083
Greenville.....	27,470	78,807	27,349	78,079	121	728
Hamilton—Middletown.....	33,052	164,221	31,764	152,989	1,288	11,232
Hampton—Newport News—Warwick.....	18,275	79,725	18,164	79,393	111	332
Harrisburg.....	32,217	109,550	31,681	106,923	536	2,627
Hartford.....	77,320	343,601	76,146	335,056	1,174	8,545
Houston.....	79,147	372,063	77,756	362,976	1,391	9,087
Huntington—Ashland.....	24,722	100,137	24,178	97,212	544	2,925
Indianapolis.....	103,147	469,429	102,233	464,243	914	5,186
Jackson, Michigan.....	15,806	73,628	15,575	72,444	231	1,184
Jackson, Mississippi.....	7,452	21,900	7,421	21,557	31	343
Jacksonville.....	17,402	58,172	17,343	57,854	59	318
Johnstown.....	23,431	84,113	23,227	82,667	204	1,446
Kalamazoo.....	24,088	108,806	23,948	108,035	140	771
Kansas City.....	118,053	515,791	115,132	497,764	2,921	18,027
Kenosha.....	15,207	66,572	15,113	65,925	94	647
Knoxville.....	34,002	120,099	33,903	119,668	99	431
Lancaster.....	43,681	157,769	42,545	150,619	1,136	7,150
Lansing.....	30,357	155,664	29,394	150,248	963	5,416
Laredo.....	856	1,658	844	1,602	12	56
Lawrence.....	17,384	59,416	17,302	59,071	82	345
Lexington.....	4,420	13,635	4,317	13,156	103	479
Lima.....	14,722	58,038	14,691	57,831	31	207
Lincoln.....	8,681	32,342	8,681	32,342	...	...
Little Rock—North Little Rock.....	11,784	34,538	11,626	33,889	158	649
Lorain—Elyria.....	30,528	138,576	30,096	136,363	432	2,213
Los Angeles—Long Beach.....	647,084	2,983,411	639,802	2,936,808	7,282	46,603
Louisville.....	88,539	375,510	84,653	354,192	3,886	21,318
Lowell.....	19,543	62,577	19,459	62,060	84	517
Lubbock.....	2,837	10,231	2,818	10,134	19	97
Macon.....	10,770	31,441	10,542	30,137	228	1,304
Madison.....	13,911	59,423	13,355	55,714	556	3,709
Manchester.....	18,702	56,999	18,698	56,947	4	52
Memphis.....	42,512	156,720	41,804	152,582	708	4,138
Miami.....	24,317	80,212	24,229	79,470	88	742
Milwaukee.....	180,473	837,473	175,802	809,880	4,671	27,593
Minneapolis—St. Paul.....	139,234	610,276	134,208	582,387	5,026	27,889
Mobile.....	15,418	56,957	15,381	56,703	37	254
Montgomery.....	6,281	17,753	6,281	17,753	...	...
Muncie.....	17,459	79,805	17,453	79,788	6	17
Nashville.....	32,691	110,612	30,499	104,061	2,192	6,551
New Bedford.....	27,903	82,772	27,852	83,549	51	223
New Britain—Bristol.....	44,141	179,469	43,950	178,017	191	1,452
New Haven.....	46,592	183,288	46,566	183,239	26	49
New Orleans.....	53,777	196,082	53,313	193,617	464	2,465
New York—Northeastern New Jersey.....	1,832,703	7,779,531	1,731,977	7,095,016	100,726	684,515
Norfolk—Portsmouth.....	15,723	55,306	15,464	54,156	259	1,150
Ogden.....	3,079	11,712	2,937	11,029	142	683
Oklahoma City.....	16,343	63,321	15,899	60,893	444	2,428
Omaha.....	33,633	134,594	30,586	121,924	3,047	12,670
Orlando.....	4,318	15,547	4,125	14,451	193	1,096
Peoria.....	41,229	185,772	37,779	167,348	3,450	18,424
Philadelphia.....	564,172	2,403,375	547,042	2,291,639	17,130	111,736
Phoenix.....	15,831	67,215	15,717	66,438	114	777
Pittsburgh.....	331,570	1,557,667	303,408	1,364,413	28,162	193,254
Pitt. Field.....	16,153	75,829	15,499	71,520	654	4,309
Portland, Maine.....	13,161	45,884	13,125	45,626	36	258
Portland, Oregon.....	57,453	244,096	56,729	239,997	724	4,099
Providence.....	131,896	460,354	130,825	453,830	1,071	6,524
Pueblo.....	8,675	36,199	8,675	36,199	...	...
Racine.....	22,695	103,984	22,024	99,999	671	3,985
Raleigh.....	6,122	17,156	6,041	17,009	81	147
Renton.....	49,436	169,157	49,130	167,369	306	1,788

See footnotes at end of table.

Table 4A.—MANUFACTURING EMPLOYMENT FOR DIVISIONS, STATES AND STANDARD METROPOLITAN AREAS: 1954 AND EARLIER YEARS—Continued
(For explanation of column captions see Introduction)

Division, State, standard metropolitan area, and year ¹	Total manufacturing employment		Employment at operating manufacturing establishments		Employment at administrative offices and auxiliaries	
	Number	Payroll (\$1,000)	Number	Payroll (\$1,000)	Number	Payroll (\$1,000)
STANDARD METROPOLITAN AREAS—Continued						
Richmond.....	37,546	136,017	36,250	128,569	1,296	7,448
Roanoke.....	12,759	42,746	12,732	42,593	27	153
Rochester.....	115,180	531,822	111,385	508,033	3,795	23,789
Rockford.....	38,194	177,568	38,194	177,568	...	...
Sacramento.....	10,920	46,875	10,907	46,787	13	88
Saginaw.....	26,693	124,865	26,625	124,462	68	403
St. Joseph.....	11,268	42,791	11,207	42,574	61	217
St. Louis.....	264,117	1,131,488	251,766	1,060,335	12,351	71,153
Salt Lake City.....	15,511	62,362	15,110	60,156	401	2,206
San Angelo.....	1,865	4,741	1,865	4,741	...	...
San Antonio.....	17,935	54,630	17,894	54,372	41	258
San Bernardino—Riverside—Ontario.....	24,542	103,472	21,158	87,345	3,384	16,127
San Diego.....	48,137	224,969	47,731	221,656	406	3,313
San Francisco—Oakland.....	186,206	881,312	173,135	793,165	13,071	88,147
San Jose.....	28,434	118,868	27,942	116,213	492	2,655
Savannah.....	13,412	47,774	13,323	47,275	89	499
Scranton.....	31,561	94,655	31,478	94,351	83	304
Seattle.....	78,910	357,369	78,447	354,664	463	2,705
Shreveport.....	8,786	32,168	8,037	28,592	749	3,576
Sioux City.....	9,421	36,739	9,401	36,651	20	88
Sioux Falls.....	5,406	21,691	5,402	21,656	4	35
South Bend.....	43,622	201,674	43,622	201,674	...	...
Spokane.....	13,829	60,765	13,674	59,851	155	914
Springfield, Illinois.....	12,857	53,414	12,816	53,256	41	158
Springfield, Missouri.....	6,695	20,775	6,682	20,697	13	78
Springfield, Ohio.....	16,823	70,435	16,823	70,435	...	...
Springfield—Holyoke.....	74,496	303,873	74,350	302,543	146	1,330
Stamford—Norwalk.....	30,871	132,743	30,372	130,404	499	2,339
Stockton.....	11,145	45,631	11,033	45,205	112	426
Syracuse.....	60,355	257,058	57,440	242,617	2,915	14,441
Tacoma.....	17,534	77,270	17,052	72,643	482	4,627
Tampa—St. Petersburg.....	22,907	70,924	22,873	70,750	34	174
Terre Haute.....	10,455	40,821	10,419	40,677	36	144
Toledo.....	64,543	319,015	61,123	296,607	3,420	22,408
Topeka.....	6,174	24,060	6,010	23,711	164	349
Trenton.....	39,517	165,971	38,289	157,238	1,228	8,733
Tucson.....	4,548	20,134	4,548	20,134	...	...
Tulsa.....	30,390	132,683	28,895	124,413	1,495	8,270
Utica—Rome.....	43,125	169,169	42,941	168,193	184	976
Waco.....	7,846	27,257	7,715	26,521	131	736
Washington, D. C.....	31,732	138,202	30,373	131,088	1,359	7,114
Waterbury.....	43,029	184,443	42,186	179,067	843	5,376
Waterloo.....	16,656	72,951	16,652	72,904	4	47
Wheeling—Steubenville.....	51,298	215,397	49,687	205,685	1,611	9,712
Wichita.....	53,260	237,765	53,190	237,206	70	559
Wichita Falls.....	3,026	11,073	3,015	11,012	11	61
Wilkes—Barre—Hazleton.....	37,262	98,864	36,902	97,448	- 360	1,416
Wilmington.....	53,089	287,695	37,919	170,700	15,170	116,995
Winston—Salem.....	31,771	107,369	29,930	96,515	1,841	10,854
Worcester.....	50,685	203,884	50,197	201,435	488	2,449
York.....	45,390	162,153	45,275	161,621	115	532
Youngstown.....	106,275	483,973	105,646	479,748	629	4,225

¹Employment data for administrative offices and auxiliaries on a State basis are not available for the years prior to 1949. Similar data for standard metropolitan areas are available only for 1954.

²The employment figures for operating manufacturing establishments for 1949–1953 are estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volume for this period. The employment figures for administrative and auxiliary units were compiled chiefly from Bureau of Old-Age and Survivors Insurance records and are not strictly comparable with the figures for these units that were collected by the Bureau of the Census for the year 1954.

³The 1951 data are shown for 1952 since auxiliary and administrative unit data were not collected in 1952. In some instances, the figures have been withheld because the estimates did not meet publication standards.

⁴The employment figures for administrative and auxiliary units are included with those for operating manufacturing establishments.

⁵The definitions of the standard metropolitan areas are shown on pages 42–44.

STANDARD METROPOLITAN AREAS

(As defined by the Bureau of the Budget)

- AKRON STANDARD METROPOLITAN AREA—Coextensive with Summit County, Ohio
- ALBANY-SCHENECTADY-TROY STANDARD METROPOLITAN AREA—Consists of Albany, Rensselaer, and Schenectady Counties, N. Y.
- ALBUQUERQUE STANDARD METROPOLITAN AREA—Coextensive with Bernalillo County, N. Mex.
- ALLENTOWN-BETHLEHEM-EASTON STANDARD METROPOLITAN AREA—Consists of Lehigh and Northampton Counties, Pa.; and Warren County, N. J.
- ALTOONA STANDARD METROPOLITAN AREA—Coextensive with Blair County, Pa.
- AMARILLO STANDARD METROPOLITAN AREA—Consists of Potter and Randall Counties, Tex.
- ASHEVILLE STANDARD METROPOLITAN AREA—Coextensive with Buncombe County, N. C.
- ATLANTA STANDARD METROPOLITAN AREA—Consists of Cobb, De Kalb, and Fulton Counties, Ga.
- ATLANTIC CITY STANDARD METROPOLITAN AREA—Coextensive with Atlantic County, N. J.
- AUGUSTA STANDARD METROPOLITAN AREA—Consists of Richmond County, Ga.; and Aiken County, S. C.
- AUSTIN STANDARD METROPOLITAN AREA—Coextensive with Travis County, Tex.
- BALTIMORE STANDARD METROPOLITAN AREA—Consists of Baltimore City, Baltimore and Anne Arundel Counties, Md.
- BATON ROUGE STANDARD METROPOLITAN AREA—Coextensive with East Baton Rouge Parish, La.
- BAY CITY STANDARD METROPOLITAN AREA—Coextensive with Bay County, Mich.
- BEAUMONT-PORT ARTHUR STANDARD METROPOLITAN AREA—Coextensive with Jefferson County, Tex.
- BINGHAMTON STANDARD METROPOLITAN AREA—Coextensive with Broome County, N. Y.
- BIRMINGHAM STANDARD METROPOLITAN AREA—Coextensive with Jefferson County, Ala.
- BOSTON STANDARD METROPOLITAN AREA—Consists of all of Suffolk County; Cambridge, Everett, Malden, Medford, Melrose, Newton, Somerville, Waltham, and Woburn Cities and Arlington, Ashland, Bedford, Belmont, Burlington, Concord, Framingham, Lexington, Lincoln, Natick, North Reading, Reading, Stoneham, Wakefield, Watertown, Wayland, Weston, Wilmington, and Winchester Towns in Middlesex County; Beverly, Lynn, Peabody, and Salem Cities and Danvers, Hamilton, Lynnfield, Manchester, Marblehead, Middleton, Nahant, Saugus, Swampscott, and Wenham Towns in Essex County; Quincy City and Braintree, Brookline, Canton, Cohasset, Dedham, Dover, Medford, Milton, Needham, Norwood, Randolph, Sharon, Walpole, Wellesley, Westwood, and Weymouth Towns in Norfolk County; and Hingham and Hull Towns in Plymouth County, Mass.
- BRIDGEPORT STANDARD METROPOLITAN AREA—Consists of Bridgeport City and Fairfield, Stratford, and Trumbull Towns in Fairfield County, and Milford Town in New Haven County, Conn.
- BROCKTON STANDARD METROPOLITAN AREA—Consists of Brockton City and Abington, Bridgewater, East Bridgewater, Rockland, West Bridgewater, and Whitman Towns in Plymouth County; Avon, Holbrook, and Stoughton Towns in Norfolk County; and Easton Town in Bristol County, Mass.
- BUFFALO STANDARD METROPOLITAN AREA—Consists of Erie and Niagara Counties, N. Y.
- CANTON STANDARD METROPOLITAN AREA—Coextensive with Stark County, Ohio
- CEDAR RAPIDS STANDARD METROPOLITAN AREA—Coextensive with Linn County, Iowa
- CHARLESTON (S. C.) STANDARD METROPOLITAN AREA—Coextensive with Charleston County, S. C.
- CHARLESTON (W. Va.) STANDARD METROPOLITAN AREA—Consists of Fayette and Kanawha Counties, W. Va.
- CHARLOTTE STANDARD METROPOLITAN AREA—Coextensive with Mecklenburg County, N. C.
- CHATTANOOGA STANDARD METROPOLITAN AREA—Consists of Hamilton County, Tenn.; and Walker County, Ga.
- CHICAGO STANDARD METROPOLITAN AREA—Consists of Cook, Du Page, Kane, Lake, and Will Counties, Ill.; and Lake County, Ind.
- CINCINNATI STANDARD METROPOLITAN AREA—Consists of Hamilton County, Ohio; and Campbell and Kenton Counties, Ky.
- CLEVELAND STANDARD METROPOLITAN AREA—Consists of Cuyahoga and Lake Counties, Ohio
- COLUMBIA STANDARD METROPOLITAN AREA—Coextensive with Richland County, S. C.
- COLUMBUS (GA.) STANDARD METROPOLITAN AREA—Consists of Chattahoochee and Muscogee Counties, Ga.; and Russell County, Ala.
- COLUMBUS (OHIO) STANDARD METROPOLITAN AREA—Coextensive with Franklin County, Ohio
- CORPUS CHRISTI STANDARD METROPOLITAN AREA—Coextensive with Nueces County, Tex.
- DALLAS STANDARD METROPOLITAN AREA—Coextensive with Dallas County, Tex.
- DAVENPORT-ROCK ISLAND-MOLINE STANDARD METROPOLITAN AREA—Consists of Rock Island County, Ill.; and Scott County, Iowa
- DAYTON STANDARD METROPOLITAN AREA—Consists of Greene and Montgomery Counties, Ohio
- DECATUR STANDARD METROPOLITAN AREA—Coextensive with Macon County, Ill.
- DENVER STANDARD METROPOLITAN AREA—Consists of Adams, Arapahoe, Denver, and Jefferson Counties, Colo.
- DES MOINES STANDARD METROPOLITAN AREA—Coextensive with Polk County, Iowa
- DETROIT STANDARD METROPOLITAN AREA—Consists of Macomb, Oakland, and Wayne Counties, Mich.
- DUBUQUE STANDARD METROPOLITAN AREA—Coextensive with Dubuque County, Iowa
- DULUTH-SUPERIOR STANDARD METROPOLITAN AREA—Consists of St. Louis County, Minn.; and Douglas County, Wis.
- DURHAM STANDARD METROPOLITAN AREA—Coextensive with Durham County, N. C.
- EL PASO STANDARD METROPOLITAN AREA—Coextensive with El Paso County, Tex.
- ERIE STANDARD METROPOLITAN AREA—Coextensive with Erie County, Pa.
- EVANSVILLE STANDARD METROPOLITAN AREA—Coextensive with Vanderburgh County, Ind.
- FALL RIVER STANDARD METROPOLITAN AREA—Consists of Fall River City and Somerset, Swansea, and Westport Towns in Bristol County, Mass.; and Tiverton Town in Newport County, R. I.
- FLINT STANDARD METROPOLITAN AREA—Coextensive with Genesee County, Mich.
- FORT SMITH STANDARD METROPOLITAN AREA—Coextensive with Sebastian County, Ark.
- FORT WAYNE STANDARD METROPOLITAN AREA—Coextensive with Allen County, Ind.
- FORT WORTH STANDARD METROPOLITAN AREA—Coextensive with Tarrant County, Tex.
- FRESNO STANDARD METROPOLITAN AREA—Coextensive with Fresno County, Calif.
- GADSDEN STANDARD METROPOLITAN AREA—Coextensive with Etowah County, Ala.
- GALVESTON STANDARD METROPOLITAN AREA—Coextensive with Galveston County, Tex.
- GRAND RAPIDS STANDARD METROPOLITAN AREA—Coextensive with Kent County, Mich.
- GREEN BAY STANDARD METROPOLITAN AREA—Coextensive with Brown County, Wis.
- GREENSBORO-HIGH POINT STANDARD METROPOLITAN AREA—Coextensive with Guilford County, N. C.
- GREENVILLE STANDARD METROPOLITAN AREA—Coextensive with Greenville County, S. C.
- HAMILTON-MIDDLETOWN STANDARD METROPOLITAN AREA—Coextensive with Butler County, Ohio
- HAMPTON-NEWPORT NEWS-WARWICK STANDARD METROPOLITAN AREA—Consists of Hampton, Newport News, and Warwick Cities, Va.
- HARRISBURG STANDARD METROPOLITAN AREA—Consists of Cumberland and Dauphin Counties, Pa.
- HARTFORD STANDARD METROPOLITAN AREA—Consists of Hartford City and Avon, Bloomfield, East Hartford, Farmington, Glastonbury, Manchester, Newington, Rocky Hill, Simsbury, South Windsor, West Hartford, Wethersfield, and Windsor Towns in Hartford County, Conn.
- HOUSTON STANDARD METROPOLITAN AREA—Coextensive with Harris County, Tex.
- HUNTINGTON-ASHLAND STANDARD METROPOLITAN AREA—Consists of Cabell and Wayne Counties, W. Va.; Boyd County, Ky.; and Lawrence County, Ohio
- INDIANAPOLIS STANDARD METROPOLITAN AREA—Coextensive with Marion County, Ind.
- JACKSON (MICH.) STANDARD METROPOLITAN AREA—Coextensive with Jackson County, Mich.
- JACKSON (MISS.) STANDARD METROPOLITAN AREA—Coextensive with Hinds County, Miss.
- JACKSONVILLE STANDARD METROPOLITAN AREA—Coextensive with Duval County, Fla.
- JOHNSTOWN STANDARD METROPOLITAN AREA—Consists of Cambria and Somerset Counties, Pa.
- KALAMAZOO STANDARD METROPOLITAN AREA—Coextensive with Kalamazoo County, Mich.
- KANSAS CITY STANDARD METROPOLITAN AREA—Consists of Johnson and Wyandotte Counties, Kans.; and Clay and Jackson Counties, Mo.
- KENOSHA STANDARD METROPOLITAN AREA—Coextensive with Kenosha County, Wis.
- KNOXVILLE STANDARD METROPOLITAN AREA—Consists of Anderson, Blount, and Knox Counties, Tenn.
- LANCASTER STANDARD METROPOLITAN AREA—Coextensive with Lancaster County, Pa.
- LANSING STANDARD METROPOLITAN AREA—Coextensive with Ingham County, Mich.
- LAREDO STANDARD METROPOLITAN AREA—Coextensive with Webb County, Tex.
- LAWRENCE STANDARD METROPOLITAN AREA—Consists of Lawrence City and Andover, Methuen, and North Andover Towns in Essex County, Mass.
- LEXINGTON STANDARD METROPOLITAN AREA—Coextensive with Fayette County, Ky.

STANDARD METROPOLITAN AREAS

- LIMA STANDARD METROPOLITAN AREA—Coextensive with Allen County, Ohio
- LINCOLN STANDARD METROPOLITAN AREA—Coextensive with Lancaster County, Nebr.
- LITTLE ROCK-NORTH LITTLE ROCK STANDARD METROPOLITAN AREA—Coextensive with Pulaski County, Ark.
- LORAIN-ELYRIA STANDARD METROPOLITAN AREA—Coextensive with Lorain County, Ohio
- LOS ANGELES-LONG BEACH STANDARD METROPOLITAN AREA—Consists of Los Angeles and Orange Counties, Calif.
- LOUISVILLE STANDARD METROPOLITAN AREA—Consists of Jefferson County, Ky.; and Clark and Floyd Counties, Ind.
- LOWELL STANDARD METROPOLITAN AREA—Consists of Lowell City and Billerica, Chelmsford, Dracut, and Tewksbury Towns in Middlesex County, Mass.
- LUBBOCK STANDARD METROPOLITAN AREA—Coextensive with Lubbock County, Tex.
- MACON STANDARD METROPOLITAN AREA—Consists of Bibb and Houston Counties, Ga.
- MADISON STANDARD METROPOLITAN AREA—Coextensive with Dane County, Wis.
- MANCHESTER STANDARD METROPOLITAN AREA—Consists of Manchester City and Goffstown Town in Hillsborough County, N. H.
- MEMPHIS STANDARD METROPOLITAN AREA—Coextensive with Shelby County, Tenn.
- MIAMI STANDARD METROPOLITAN AREA—Coextensive with Dade County, Fla.
- MILWAUKEE STANDARD METROPOLITAN AREA—Coextensive with Milwaukee County, Wis.
- MINNEAPOLIS-ST. PAUL STANDARD METROPOLITAN AREA—Consists of Anoka, Dakota, Hennepin, and Ramsey Counties, Minn.
- MOBILE STANDARD METROPOLITAN AREA—Coextensive with Mobile County, Ala.
- MONTGOMERY STANDARD METROPOLITAN AREA—Coextensive with Montgomery County, Ala.
- MUNCIE STANDARD METROPOLITAN AREA—Coextensive with Delaware County, Ind.
- NASHVILLE STANDARD METROPOLITAN AREA—Coextensive with Davidson County, Tenn.
- NEW BEDFORD STANDARD METROPOLITAN AREA—Consists of New Bedford City and Acushnet, Dartmouth, and Fairhaven Towns in Bristol County, Mass.
- NEW BRITAIN-BRISTOL STANDARD METROPOLITAN AREA—Consists of Bristol and New Britain Cities and Berlin, Plainville, and Southington Towns in Hartford County; and Plymouth Town in Litchfield County, Conn.
- NEW HAVEN STANDARD METROPOLITAN AREA—Consists of New Haven City and Branford, East Haven, Hamden, North Haven, Orange, West Haven and Woodbridge Towns in New Haven County, Conn.
- NEW ORLEANS STANDARD METROPOLITAN AREA—Consists of Jefferson, Orleans, and St. Bernard Parishes, La.
- NEW YORK-NORTHEASTERN NEW JERSEY STANDARD METROPOLITAN AREA—Consists of New York City (Bronx, Kings, New York, Queens, and Richmond Counties) and Nassau, Rockland, Suffolk, and Westchester Counties, N. Y.; and Bergen, Essex, Hudson, Middlesex, Morris, Passaic, Somerset, and Union Counties, N. J.
- NORFOLK-PORTSMOUTH STANDARD METROPOLITAN AREA—Consists of Norfolk and Princess Anne Counties, and the cities of Norfolk, South Norfolk, Portsmouth, and Virginia Beach, Va.
- ODGEN STANDARD METROPOLITAN AREA—Coextensive with Weber County, Utah
- OKLAHOMA CITY STANDARD METROPOLITAN AREA—Coextensive with Oklahoma County, Okla.
- OMAHA STANDARD METROPOLITAN AREA—Consists of Douglas and Sarpy Counties, Nebr.; and Pottawattamie County, Iowa
- ORLANDO STANDARD METROPOLITAN AREA—Coextensive with Orange County, Fla.
- PEORIA STANDARD METROPOLITAN AREA—Consists of Peoria and Tazewell Counties, Ill.
- PHILADELPHIA STANDARD METROPOLITAN AREA—Consists of Bucks, Chester, Delaware, Montgomery, and Philadelphia Counties, Pa.; and Burlington, Camden, and Gloucester Counties, N. J.
- PHOENIX STANDARD METROPOLITAN AREA—Coextensive with Maricopa County, Ariz.
- PITTSBURGH STANDARD METROPOLITAN AREA—Consists of Allegheny, Beaver, Washington, and Westmoreland Counties, Pa.
- PITTSFIELD STANDARD METROPOLITAN AREA—Consists of Pittsfield City and Dalton, Lenox, and Lee Towns in Berkshire County, Mass.
- PORTLAND (MAINE) STANDARD METROPOLITAN AREA—Consists of Portland, South Portland, and Westbrook Cities and Cape Elizabeth and Falmouth Towns in Cumberland County, Me.
- PORTLAND (OREG.) STANDARD METROPOLITAN AREA—Consists of Clackamas, Multnomah, and Washington Counties, Oreg.; and Clark County, Wash.
- PROVIDENCE STANDARD METROPOLITAN AREA—Consists of Central Falls, Cranston, Pawtucket, Providence, and Woonsocket Cities and Cumberland, East Providence, Johnston, Lincoln, North Providence, North Smithfield, and Smithfield Towns in Providence County; North Kingston Town in Washington County; Warwick City and East Greenwich, and West Warwick Towns in Kent County; and all of Bristol County, R. I. Also Attleboro City and North Attleborough, and Seekonk Towns in Bristol County; Bellingham, Franklin, Plainville, and Wrentham Towns in Norfolk County; and Blackstone and Millville Towns in Worcester County, Mass.
- PUEBLO STANDARD METROPOLITAN AREA—Coextensive with Pueblo County, Colo.
- RACINE STANDARD METROPOLITAN AREA—Coextensive with Racine County, Wis.
- RALEIGH STANDARD METROPOLITAN AREA—Coextensive with Wake County, N. C.
- READING STANDARD METROPOLITAN AREA—Coextensive with Berks County, Pa.
- RICHMOND STANDARD METROPOLITAN AREA—Consists of Richmond City and Chesterfield, and Henrico Counties, Va.
- ROANOKE STANDARD METROPOLITAN AREA—Consists of Roanoke City and Roanoke County, Va.
- ROCHESTER STANDARD METROPOLITAN AREA—Coextensive with Monroe County, N. Y.
- ROCKFORD STANDARD METROPOLITAN AREA—Coextensive with Winnebago County, Ill.
- SACRAMENTO STANDARD METROPOLITAN AREA—Coextensive with Sacramento County, Calif.
- SAGINAW STANDARD METROPOLITAN AREA—Coextensive with Saginaw County, Mich.
- ST. JOSEPH STANDARD METROPOLITAN AREA—Coextensive with Buchanan County, Mo.
- ST. LOUIS STANDARD METROPOLITAN AREA—Consists of St. Louis City and St. Charles and St. Louis Counties, Mo.; and Madison and St. Clair Counties, Ill.
- SALT LAKE CITY STANDARD METROPOLITAN AREA—Coextensive with Salt Lake County, Utah
- SAN ANGELO STANDARD METROPOLITAN AREA—Coextensive with Tom Green County, Tex.
- SAN ANTONIO STANDARD METROPOLITAN AREA—Coextensive with Bexar County, Tex.
- SAN BERNARDINO-RIVERSIDE-ONTARIO STANDARD METROPOLITAN AREA—Consists of San Bernardino and Riverside Counties, Calif.
- SAN DIEGO STANDARD METROPOLITAN AREA—Coextensive with San Diego County, Calif.
- SAN FRANCISCO-OAKLAND STANDARD METROPOLITAN AREA—Consists of Alameda, Contra Costa, Marin, San Francisco, San Mateo, and Solano Counties, Calif.
- SAN JOSE STANDARD METROPOLITAN AREA—Coextensive with Santa Clara County, Calif.
- SAVANNAH STANDARD METROPOLITAN AREA—Coextensive with Chatham County, Ga.
- SCRANTON STANDARD METROPOLITAN AREA—Coextensive with Lackawanna County, Pa.
- SEATTLE STANDARD METROPOLITAN AREA—Coextensive with King County, Wash.
- SHREVEPORT STANDARD METROPOLITAN AREA—Consists of Caddo and Bossier Parishes, La.
- SIOUX CITY STANDARD METROPOLITAN AREA—Coextensive with Woodbury County, Iowa
- SIOUX FALLS STANDARD METROPOLITAN AREA—Coextensive with Minnehaha County, S. Dak.
- SOUTH BEND STANDARD METROPOLITAN AREA—Coextensive with St. Joseph County, Ind.
- SPOKANE STANDARD METROPOLITAN AREA—Coextensive with Spokane County, Wash.
- SPRINGFIELD (ILL.) STANDARD METROPOLITAN AREA—Coextensive with Sangamon County, Ill.
- SPRINGFIELD (MO.) STANDARD METROPOLITAN AREA—Coextensive with Greene County, Mo.
- SPRINGFIELD (OHIO) STANDARD METROPOLITAN AREA—Coextensive with Clark County, Ohio
- SPRINGFIELD-HOLYOKE STANDARD METROPOLITAN AREA—Consists of Chicopee, Holyoke, Springfield, and Westfield Cities and Agawam, East Longmeadow, Longmeadow, Ludlow, West Springfield, and Wilbraham Towns in Hampden County; Northampton City and Easthampton, and South Hadley Towns in Hampshire County, Mass. Also Enfield Town in Hartford County, Conn.
- STAMFORD-NORWALK STANDARD METROPOLITAN AREA—Consists of Norwalk and Stamford Cities and Darien, Greenwich, New Canaan, and Westport Towns in Fairfield County, Conn.
- STOCKTON STANDARD METROPOLITAN AREA—Coextensive with San Joaquin County, Calif.
- SYRACUSE STANDARD METROPOLITAN AREA—Coextensive with Onondaga County, N. Y.
- TACOMA STANDARD METROPOLITAN AREA—Coextensive with Pierce County, Wash.
- TAMPA-ST. PETERSBURG STANDARD METROPOLITAN AREA—Consists of Hillsborough and Pinellas Counties, Fla.
- TERRE HAUTE STANDARD METROPOLITAN AREA—Coextensive with Vigo County, Ind.
- TOLEDO STANDARD METROPOLITAN AREA—Coextensive with Lucas County, Ohio
- TOPEKA STANDARD METROPOLITAN AREA—Coextensive with Shawnee County, Kans.
- TRENTON STANDARD METROPOLITAN AREA—Coextensive with Mercer County, N. J.
- TUCSON STANDARD METROPOLITAN AREA—Coextensive with Pima County, Ariz.
- TULSA STANDARD METROPOLITAN AREA—Coextensive with Tulsa County, Okla.
- UTICA-ROME STANDARD METROPOLITAN AREA—Consists of Herkimer and Oneida Counties, N. Y.

GENERAL SUMMARY

STANDARD METROPOLITAN AREAS

- WACO STANDARD METROPOLITAN AREA—Coextensive with McLennan County, Tex.
- WASHINGTON STANDARD METROPOLITAN AREA—Consists of the District of Columbia; Alexandria and Falls Church Cities and Arlington and Fairfax Counties, Va.; Montgomery and Prince Georges Counties, Md.
- WATERBURY STANDARD METROPOLITAN AREA—Consists of Waterbury City, Naugatuck Borough, and Beacon Falls, Cheshire, Middlebury, Prospect, and Wolcott Towns in New Haven County; and Thomastown and Watertown Towns in Litchfield County, Conn.
- WATERLOO STANDARD METROPOLITAN AREA—Coextensive with Blackhawk County, Iowa
- WHEELING-STEUBENVILLE STANDARD METROPOLITAN AREA—Consists of Brooke, Hancock, Marshall, and Ohio Counties, W. Va.; and Belmont and Jefferson Counties, Ohio
- WICHITA STANDARD METROPOLITAN AREA—Coextensive with Sedgwick County, Kans.
- WICHITA FALLS STANDARD METROPOLITAN AREA—Coextensive with Wichita County, Tex.
- WILKES-BARRE-HAZLETON STANDARD METROPOLITAN AREA—Coextensive with Luzerne County, Pa.
- WILMINGTON STANDARD METROPOLITAN AREA—Consists of New Castle County, Del.; and Salem County, N. J.
- WINSTON-SALEM STANDARD METROPOLITAN AREA—Coextensive with Forsyth County, N. C.
- WORCESTER STANDARD METROPOLITAN AREA—Consists of Worcester City and Auburn, East Brookfield, Grafton, Holden, Leicester, Millbury, Northborough, North Brookfield, Shrewsbury, Spencer, Westborough, and West Boylston Towns in Worcester County, Mass.
- YORK STANDARD METROPOLITAN AREA—Coextensive with York County, Pa.
- YOUNGSTOWN STANDARD METROPOLITAN AREA—Consists of Mahoning and Trumbull Counties, Ohio, and Mercer County, Pa.

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Table 4B.—GENERAL STATISTICS FOR ALL OPERATING MANUFACTURING ESTABLISHMENTS BY DIVISIONS, STATES, AND STANDARD METROPOLITAN AREAS:
1954 AND EARLIER YEARS

(For explanation of column captions see Introduction)

Division, State, Standard Metropolitan Area, and Year	Establish- ments, number	All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new (\$1,000)	
		Number ✓	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
United States:									
1954 ¹	286,817	15,651,294	62,993,321	12,373,030	24,341,239	44,595,457	116,912,526	7,818,155	
1953 ²	285,000	16,693,076	66,492,872	13,500,934	27,065,569	48,979,102	121,659,136	7,541,606	
1952 ²	287,000	15,732,722	59,598,225	12,706,032	25,617,613	43,763,640	109,162,079	7,525,923	
1951 ²	262,000	15,309,638	54,741,463	12,508,914	25,263,764	40,654,832	102,085,814	7,205,059	
1950 ²	260,000	14,467,149	46,642,786	11,778,803	23,716,536	34,600,025	89,749,765	5,110,262	
1949 ²	(NA)	13,566,949	41,482,008	11,016,301	21,769,728	30,253,971	75,366,527	5,066,941	
1947.....	240,807	14,293,963	39,695,558	11,917,884	24,316,465	30,243,971	74,290,475	5,998,099	
1939.....	173,802	9,527,306	12,706,102	7,808,205		8,997,515	24,487,304		
1929.....	206,663	9,659,742	14,284,282	8,369,705		10,884,919	30,591,435		
1919.....	270,231	9,836,801	12,426,902	8,464,916		9,664,009	23,841,624		(NA)
1909.....	264,810	7,012,066	4,105,470	6,261,736		3,205,213	8,160,075		
1899.....	204,750	4,850,019	2,258,654	4,501,919		1,892,574	4,646,981		
New England:									
1954 ¹	24,625	1,431,300	5,356,133	1,154,083	2,275,672	3,858,699	9,128,281	424,264	
1953 ²		(NA)	1,571,308	5,873,319	1,294,707	2,618,591	4,396,383	9,904,786	387,721
1952 ²			1,482,089	5,318,226	1,219,812	2,489,503	3,983,283	9,023,974	419,368
1951 ²			1,475,391	5,040,566	1,226,985	2,510,621	3,816,755	8,469,050	429,678
1950 ²			1,418,010	4,337,683	1,181,769	2,380,143	3,288,325	7,417,675	(NA)
1949 ²			1,323,249	3,839,403	1,097,320	2,149,529	2,849,130	6,299,364	
1947.....	20,256	1,475,162	3,940,122	1,248,839	(NA)	3,054,437	6,798,114	418,580	
1939.....	15,201	1,121,152	1,402,144	947,412		1,018,683	2,414,268		
1929.....	18,272	1,245,868	1,732,759	1,098,514		1,346,391	3,239,798		
1919.....	24,552	1,509,093	1,765,285	1,347,531		1,431,687	3,221,328		(NA)
1909.....	25,351	1,187,987	669,914	1,101,290		557,630	1,193,767		
1899.....	22,576	897,305	421,070	851,903		367,675	756,311		
Maine:									
1954 ¹	3,015	104,025	322,158	91,092	180,691	260,047	565,260	58,935	
1953 ²		(NA)	109,351	350,777	96,733	197,274	288,390	583,855	38,593
1952 ²			107,590	320,517	96,268	192,335	268,621	525,514	31,283
1951 ²			106,671	305,444	95,753	191,147	255,732	520,998	39,635
1950 ²			108,050	280,357	95,202	188,378	229,006	454,278	(NA)
1949 ²			101,458	256,185	90,693	177,827	209,563	407,121	
1947.....	1,633	100,118	233,851	90,323	(NA)	199,085	429,540	35,055	
1939.....	1,118	82,184	83,479	74,040		67,340	150,588		
1929.....	1,568	76,799	90,300	70,159		74,200	174,385		
1919.....	2,834	96,082	111,203	88,251		93,761	201,444		(NA)
1909.....	3,546	84,815	43,429	79,955		37,632	78,928		
1899.....	2,878	73,017	28,781	69,914		25,731	51,749		
New Hampshire:									
1954 ¹	1,609	77,071	245,346	65,987	128,465	190,760	408,826	18,492	
1953 ²		(NA)	87,866	270,025	77,589	152,822	221,870	427,126	14,581
1952 ²			83,856	254,307	74,062	141,960	206,676	413,181	19,115
1951 ²			85,030	243,884	75,466	140,043	197,658	407,474	25,449
1950 ²			80,462	212,507	71,789	134,482	174,920	353,710	(NA)
1949 ²			76,975	191,437	67,639	123,465	154,303	309,636	
1947.....	1,124	74,752	177,479	66,448	(NA)	145,324	306,932	24,010	
1939.....	772	61,224	65,154	55,434		52,394	104,153		
1929.....	1,075	71,233	85,264	65,511		70,514	147,132		
1919.....	1,451	88,726	92,330	82,917		79,136	167,329		(NA)
1909.....	1,961	82,177	40,391	78,658		36,200	66,424		
1899.....	1,771	69,714	28,049	67,646		25,850	47,427		
Vermont:									
1954 ¹	1,071	35,899	122,829	29,929	59,328	92,962	222,965	8,876	
1953 ²		(NA)	38,811	143,327	32,765	69,636	110,225	246,754	9,527
1952 ²			42,180	150,042	35,677	79,503	118,958	264,155	11,615
1951 ²			42,334	141,867	36,450	80,408	113,242	264,622	(S)
1950 ²			40,636	115,829	35,395	75,804	93,882	205,938	(NA)
1949 ²			33,478	85,618	28,738	57,619	66,142	150,578	
1947.....	831	34,886	83,050	30,252	(NA)	66,428	149,715	9,698	
1939.....	659	24,084	27,422	20,498		19,940	49,741		
1929.....	927	30,540	41,946	27,421		33,810	77,260		
1919.....	1,702	36,709	41,069	33,194		33,758	71,788		(NA)
1909.....	1,958	36,467	20,075	33,788		17,272	33,487		
1899.....	1,938	29,874	13,037	28,179		11,427	25,130		
Massachusetts:									
1954 ¹	11,205	677,140	2,528,296	536,456	1,047,412	1,769,102	4,356,462	180,698	
1953 ²		(NA)	733,868	2,706,164	594,325	1,185,366	1,972,574	4,630,013	157,212
1952 ²			693,806	2,480,205	559,166	1,127,914	1,795,997	4,293,079	180,840
1951 ²			702,683	2,404,405	572,340	1,156,740	1,764,671	4,024,945	164,708
1950 ²			688,603	2,126,009	561,578	1,131,536	1,562,980	3,665,666	(NA)
1949 ²			649,700	1,907,132	528,426	1,039,512	1,383,253	3,193,499	
1947.....	10,509	718,069	1,920,718	601,370	(NA)	1,463,144	3,356,311	198,985	
1939.....	8,444	549,550	702,487	458,372		498,177	1,181,465		
1929.....	9,872	639,164	910,023	557,494		694,805	1,710,729		
1919.....	11,627	801,260	947,768	712,254		764,579	1,746,539		(NA)
1909.....	11,684	633,205	364,452	584,559		301,173	659,764		
1899.....	10,929	463,490	224,758	438,234		195,278	408,971		

See footnotes at end of table.

GENERAL SUMMARY

Table 4B.—GENERAL STATISTICS FOR ALL OPERATING MANUFACTURING ESTABLISHMENTS BY DIVISIONS, STATES, AND STANDARD METROPOLITAN AREAS:
1954 AND EARLIER YEARS—Continued

(For explanation of column captions see Introduction)

Division, State, Standard Metropolitan Area, and Year	Establish- ments, number	All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new (\$1,000)
		Number ✓	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)		
New England—Continued								
Rhode Island:								
1954 ¹	2,635	123,970	425,365	103,800	207,766	314,467	697,279	27,671
1953 ²	(NA)	151,007	524,351	130,151	257,131	409,350	824,482	33,455
1952 ²		130,485	442,472	110,037	227,009	339,854	724,446	29,476
1951 ²		132,849	420,072	112,449	230,998	323,505	653,589	42,205
1950 ²		134,043	386,468	115,307	229,636	311,231	614,636	(NA)
1949 ²		124,495	348,105	105,982	212,052	264,042	564,100	
1947.....	2,213	147,382	375,676	128,579	(NA)	298,482	658,905	34,609
1939.....	1,399	122,671	141,262	106,089		105,216	237,698	(NA)
1929.....	1,701	140,116	182,899	126,068		144,197	324,078	
1919.....	2,367	153,499	168,068	139,316		137,105	330,590	
1909.....	1,951	120,920	65,811	113,538		55,234	122,152	
1899.....	1,678	92,219	41,296	88,197	35,995	77,599		
Connecticut:								
1954 ¹	5,090	413,193	1,712,136	326,815	652,008	1,231,359	2,877,486	129,591
1953 ²	(NA)	450,405	1,878,675	363,144	756,362	1,393,974	3,192,556	134,353
1952 ²		424,172	1,670,683	344,602	720,782	1,253,177	2,803,599	147,039
1951 ²		405,824	1,524,894	334,527	711,285	1,161,947	2,597,422	139,122
1950 ²		366,216	1,216,513	302,498	620,307	916,306	2,123,447	(NA)
1949 ²		337,143	1,050,926	275,842	539,054	771,827	1,674,430	
1947.....	3,946	399,955	1,149,348	331,867	(NA)	881,974	1,896,711	116,223
1939.....	2,809	281,439	382,340	232,979		275,616	690,323	(NA)
1929.....	3,129	288,016	422,345	251,861		328,865	806,214	
1919.....	4,571	332,817	404,847	291,599		323,348	703,638	
1909.....	4,251	230,403	135,756	210,792		110,119	233,012	
1899.....	3,382	168,991	85,149	159,733	73,394	145,435		
Middle Atlantic:								
1954 ¹	82,380	4,105,248	16,656,158	3,212,476	6,217,339	11,524,926	30,402,190	1,551,089
1953 ²	(NA)	4,362,051	17,572,382	3,491,465	6,915,521	12,628,266	31,654,930	1,581,553
1952 ²		4,167,399	15,992,791	3,320,456	6,636,902	11,433,562	28,590,270	1,665,191
1951 ²		4,064,369	14,834,813	3,273,735	6,591,917	10,732,197	26,666,411	1,565,054
1950 ²		3,905,535	12,816,031	3,121,292	6,266,825	9,234,588	23,503,166	(NA)
1949 ²		3,737,368	11,728,888	2,978,628	5,895,373	8,353,497	20,675,914	
1947.....	75,341	3,953,870	11,419,701	3,248,732	(NA)	8,524,628	20,767,991	1,335,235
1939.....	52,226	2,757,909	3,859,853	2,234,295		2,668,489	7,308,780	(NA)
1929.....	64,730	3,002,843	4,853,031	2,562,340		3,640,419	10,175,956	
1919.....	85,509	3,348,567	4,463,569	2,859,604		3,447,834	8,399,615	
1909.....	81,315	2,491,161	1,527,833	2,207,747		1,182,568	2,982,264	
1899.....	65,834	1,732,170	871,309	1,604,844	729,366	1,763,315		
New York:								
1954 ¹	50,402	1,895,982	7,734,388	1,470,137	2,842,598	5,231,858	14,140,524	572,125
1953 ²	(NA)	1,977,426	7,996,237	1,555,434	3,053,837	5,546,020	14,410,234	511,573
1952 ²		1,889,036	7,321,717	1,472,952	2,938,539	5,047,403	13,145,941	528,407
1951 ²		1,816,230	6,711,253	1,427,398	2,852,200	4,649,236	11,933,729	532,654
1950 ²		1,762,624	5,878,192	1,365,557	2,738,306	4,083,728	10,511,860	(NA)
1949 ²		1,704,398	5,474,015	1,318,111	2,624,563	3,765,549	9,528,110	
1947.....	47,782	1,773,138	5,277,656	1,425,033	(NA)	3,821,492	9,655,859	497,443
1939.....	32,672	1,211,010	1,749,676	949,362		1,151,820	3,313,649	(NA)
1929.....	39,395	1,331,357	2,294,882	1,105,966		1,650,379	4,973,920	
1919.....	48,331	1,467,443	1,961,398	1,221,933		1,450,119	3,908,804	
1909.....	44,935	1,155,672	743,263	1,003,981		557,231	1,512,586	
1899.....	35,957	794,939	414,064	726,909	337,324	853,454		
New Jersey:								
1954 ¹	13,183	787,593	3,352,425	605,099	1,187,747	2,280,134	6,331,178	359,816
1953 ²	(NA)	835,544	3,497,451	657,259	1,320,039	2,478,978	6,451,055	325,616
1952 ²		778,328	3,171,990	610,977	1,257,938	2,252,693	5,764,365	305,466
1951 ²		762,875	2,901,179	610,018	1,248,586	2,095,668	5,310,912	355,669
1950 ²		721,493	2,498,816	575,288	1,175,553	1,785,940	4,867,312	(NA)
1949 ²		684,903	2,237,620	546,552	1,095,264	1,593,950	4,206,331	
1947.....	10,765	739,035	2,216,874	602,304	(NA)	1,645,489	4,186,077	303,987
1939.....	7,438	531,126	753,941	431,562		519,087	1,518,269	(NA)
1929.....	8,388	516,576	808,862	442,328		610,596	1,771,430	
1919.....	10,564	590,920	769,258	507,059		598,514	1,397,775	
1909.....	8,817	363,061	218,046	326,223		169,710	425,496	
1899.....	6,415	229,336	114,223	213,975	95,165	218,280		
Pennsylvania:								
1954 ¹	18,795	1,421,673	5,569,345	1,137,241	2,186,993	4,012,932	9,930,486	619,147
1953 ²	(NA)	1,549,081	6,078,694	1,278,772	2,541,645	4,603,268	10,793,641	744,364
1952 ²		1,500,035	5,499,084	1,236,527	2,440,425	4,133,466	9,679,964	831,318
1951 ²		1,485,264	5,222,381	1,236,319	2,491,131	3,987,293	9,421,770	676,731
1950 ²		1,421,418	4,439,023	1,180,447	2,352,966	3,364,920	8,123,994	(NA)
1949 ²		1,348,067	4,017,253	1,113,965	2,175,546	2,993,998	6,941,473	
1947.....	16,704	1,441,697	3,925,171	1,221,395	(NA)	3,057,647	6,926,055	533,805
1939.....	13,116	1,015,773	1,356,236	853,371		997,582	2,476,862	(NA)
1929.....	16,947	1,154,910	1,749,287	1,014,046		1,379,444	3,430,606	
1919.....	26,614	1,290,204	1,732,913	1,130,612		1,399,201	3,092,976	
1909.....	27,563	972,428	566,524	877,543		455,627	1,044,182	
1899.....	23,462	707,895	343,022	663,960	296,877	691,581		

See footnotes at end of table.

GENERAL SUMMARY

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Table 4B.—GENERAL STATISTICS FOR ALL OPERATING MANUFACTURING ESTABLISHMENTS BY DIVISIONS, STATES, AND STANDARD METROPOLITAN AREAS:
1954 AND EARLIER YEARS—Continued

(For explanation of column captions see Introduction)

Division, State, Standard Metropolitan Area, and Year	Establishments, number	All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new (\$1,000)
		Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)		
East North Central:								
1954 ¹	58,946	4,459,829	20,003,625	3,489,654	6,964,115	14,265,381	36,500,510	2,653,891
1953 ²		5,000,314	22,124,246	4,008,696	8,166,737	16,417,096	39,926,490	2,535,657
1952 ²	(NA)	4,628,971	19,568,947	3,685,187	7,557,235	14,404,477	35,533,088	2,461,857
1951 ²		4,585,164	18,205,441	3,705,677	7,617,045	13,569,131	33,543,646	2,351,830
1950 ²		4,328,066	15,559,155	3,496,240	7,170,060	11,592,155	29,818,015	(NA)
1949 ²		4,008,911	13,542,806	3,217,736	6,423,806	9,870,679	24,501,907	(NA)
1947.....	50,569	4,322,812	13,019,237	3,567,725		9,940,544	23,474,185	1,863,548
1939.....	38,013	2,692,815	4,092,078	2,180,600		2,932,440	7,744,406	
1929.....	46,396	2,949,356	4,841,271	2,542,176	(NA)	3,738,803	9,973,491	(NA)
1919.....	58,717	2,824,606	3,849,389	2,387,477		2,981,205	7,093,838	(NA)
1909.....	60,013	1,729,537	1,077,660	1,513,764		827,153	2,177,230	
1899.....	50,521	1,176,672	574,539	1,073,322		473,040	1,205,478	
Ohio:								
1954 ¹	14,550	1,267,542	5,655,721	986,282	1,947,963	4,018,755	10,165,111	760,932
1953 ²		1,383,971	5,166,115	1,106,329	2,264,391	4,586,641	11,192,103	672,246
1952 ²	(NA)	1,311,233	5,548,298	1,043,719	2,125,892	4,092,735	10,037,844	731,524
1951 ²		1,277,891	5,117,121	1,028,445	2,120,984	3,802,661	9,396,104	790,976
1950 ²		1,170,623	4,162,022	935,796	1,894,489	3,071,701	7,972,073	(NA)
1949 ²		1,078,746	3,585,634	860,447	1,689,299	2,595,797	6,412,895	(NA)
1947.....	12,302	1,194,263	3,559,540	988,019		2,726,991	6,357,957	498,254
1939.....	9,543	731,742	1,120,831	595,520		809,399	2,116,434	
1929.....	11,855	853,385	1,404,180	741,143	(NA)	1,102,166	2,889,804	(NA)
1919.....	15,585	867,255	1,214,552	728,303		941,340	2,182,610	(NA)
1909.....	15,138	508,285	317,597	446,934		245,450	613,734	
1899.....	13,868	336,218	164,579	308,109		136,428	339,368	
Indiana:								
1954 ¹	6,355	582,803	2,504,411	457,965	902,354	1,796,754	4,625,477	301,247
1953 ²		679,399	2,869,657	553,928	1,114,095	2,180,370	5,205,348	420,827
1952 ²	(NA)	604,949	2,419,456	491,750	979,713	1,826,933	4,523,533	362,788
1951 ²		591,565	2,260,924	487,909	991,914	1,735,432	4,278,221	333,951
1950 ²		558,370	1,938,651	461,334	936,525	1,485,702	3,832,892	(NA)
1949 ²		506,350	1,658,144	414,857	829,208	1,254,500	3,059,100	(NA)
1947.....	5,403	548,260	1,582,237	457,544		1,232,189	2,969,961	302,104
1939.....	4,192	337,869	474,099	275,272		342,652	964,746	
1929.....	5,091	359,888	534,186	314,698	(NA)	418,771	1,136,463	(NA)
1919.....	7,558	322,362	400,942	276,695		315,976	721,736	(NA)
1909.....	7,969	210,589	121,816	186,984		95,511	244,700	
1899.....	7,128	149,464	69,251	139,017		59,280	141,909	
Illinois:								
1954 ¹	17,628	1,177,933	5,137,353	903,784	1,789,154	3,520,339	9,668,752	551,882
1953 ²		1,284,031	5,495,229	1,003,889	2,039,317	3,901,970	10,111,624	596,446
1952 ²	(NA)	1,234,323	5,050,519	956,714	1,957,825	3,547,742	9,319,779	596,433
1951 ²		1,219,701	4,709,159	956,588	1,969,685	3,347,116	8,835,548	479,973
1950 ²		1,163,316	4,042,835	909,035	1,849,754	2,851,103	7,933,449	(NA)
1949 ²		1,103,973	3,697,953	860,475	1,733,932	2,557,792	6,898,999	(NA)
1947.....	15,993	1,186,134	3,589,364	955,057		2,628,615	6,683,083	472,657
1939.....	11,983	752,728	1,107,625	590,995		742,451	2,187,240	
1929.....	15,333	827,507	1,393,592	691,555	(NA)	1,024,870	2,930,038	(NA)
1919.....	17,808	785,859	1,070,992	649,994		797,081	1,929,125	(NA)
1909.....	18,026	543,687	364,768	465,764		273,319	758,350	
1899.....	14,374	373,835	199,653	332,871		159,104	439,418	
Michigan:								
1954 ¹	12,711	1,001,630	4,891,749	809,316	1,655,338	3,660,965	8,707,194	870,465
1953 ²		1,179,258	5,623,046	971,442	1,987,301	4,327,145	9,781,647	678,537
1952 ²	(NA)	1,021,265	4,708,765	831,893	1,735,435	3,587,302	8,320,712	588,169
1951 ²		1,042,326	4,380,279	868,748	1,761,238	3,397,426	7,858,442	551,873
1950 ²		1,012,145	3,952,496	850,623	1,769,229	3,112,945	7,392,255	(NA)
1949 ²		922,362	3,333,103	768,876	1,528,224	2,559,767	5,769,964	(NA)
1947.....	9,891	975,481	3,097,336	823,255		2,444,552	5,200,135	427,746
1939.....	5,961	618,702	1,024,965	520,165		788,036	1,794,016	
1929.....	6,686	599,179	1,041,789	530,035	(NA)	840,505	2,067,344	(NA)
1919.....	8,046	541,175	787,241	470,274		638,420	1,544,581	(NA)
1909.....	9,159	262,106	153,838	231,499		118,968	316,497	
1899.....	7,310	169,150	74,868	155,800		62,532	143,726	
Wisconsin:								
1954 ¹	7,702	429,919	1,814,390	332,305	699,304	1,268,569	3,333,976	169,303
1953 ²		473,655	1,970,199	373,108	761,633	1,420,970	3,635,768	167,601
1952 ²	(NA)	477,201	1,841,909	361,111	758,370	1,349,765	3,331,220	182,943
1951 ²		453,681	1,737,958	363,987	773,224	1,286,496	3,175,331	195,057
1950 ²		423,612	1,463,151	339,452	720,063	1,070,704	2,687,346	(NA)
1949 ²		397,480	1,267,972	313,081	643,143	902,823	2,360,949	(NA)
1947.....	6,980	418,674	1,190,760	343,850		908,197	2,263,047	142,781
1939.....	6,334	251,774	364,558	198,648		249,902	681,970	
1929.....	7,431	309,397	467,524	264,745	(NA)	352,491	949,842	(NA)
1919.....	9,720	307,955	375,662	262,211		288,388	715,786	(NA)
1909.....	9,721	204,870	119,641	182,583		93,905	243,949	
1899.....	7,841	148,005	66,188	137,525		55,696	141,057	

See footnotes at end of table.

GENERAL SUMMARY

Table 4B.—GENERAL STATISTICS FOR ALL OPERATING MANUFACTURING ESTABLISHMENTS BY DIVISIONS, STATES, AND STANDARD METROPOLITAN AREAS:
1954 AND EARLIER YEARS—Continued

(For explanation of column captions see Introduction)

Division, State, Standard Metropolitan Area, and Year	Establishments, number	All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new (\$1,000)
		Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)		
West North Central:								
1954 ¹	19,020	939,357	3,731,449	713,222	1,426,488	2,573,277	7,113,835	389,113
1953 ²		978,919	3,808,732	770,470	1,558,465	2,764,322	7,050,337	358,591
1952 ²		946,917	3,496,043	739,486	1,520,663	2,502,059	6,404,371	319,684
1951 ²	(NA)	881,557	3,032,555	691,971	1,410,879	2,180,216	5,688,029	353,344
1950 ²		811,926	2,529,007	637,452	1,291,604	1,803,214	5,154,364	
1949 ²		778,589	2,297,964	611,224	1,215,493	1,593,854	4,394,939	(NA)
1947.....	17,389	746,147	2,069,657	635,455		1,507,209	4,115,706	340,462
1939.....	14,066	490,651	642,705	376,156		420,581	1,348,167	
1929.....	17,792	567,160	804,673	474,115		589,162	1,869,991	
1919.....	26,255	603,866	734,649	492,054	(NA)	536,304	1,387,774	(NA)
1909.....	27,171	437,777	274,298	374,337		204,793	562,044	
1899.....	20,732	296,657	146,336	266,051		117,209	325,404	
Minnesota:								
1954 ¹	5,027	203,022	834,888	151,132	305,345	560,492	1,594,505	82,188
1953 ²		207,648	834,484	161,252	330,935	603,780	1,554,405	96,113
1952 ²		208,199	786,442	158,468	325,786	542,643	1,445,476	55,559
1951 ²	(NA)	196,901	711,211	151,568	311,967	499,307	1,301,396	66,485
1950 ²		180,864	593,914	142,122	290,737	414,814	1,200,204	
1949 ²		177,581	558,893	139,476	276,618	374,919	1,081,848	(NA)
1947.....	4,563	181,514	508,352	145,020		358,605	1,021,274	82,800
1939.....	3,735	102,179	143,397	78,023		95,273	306,840	
1929.....	4,315	124,231	180,142	103,414		132,418	404,995	
1919.....	5,633	140,414	169,843	113,781	(NA)	124,811	327,921	(NA)
1909.....	5,561	99,030	62,923	84,767		47,471	127,797	
1899.....	4,096	71,182	35,093	64,557		29,029	73,394	
Iowa:								
1954 ¹	3,320	162,705	643,980	122,763	248,683	443,615	1,235,965	73,410
1953 ²		165,773	640,194	130,011	264,734	465,703	1,179,513	64,614
1952 ²		158,783	591,782	120,417	250,220	423,495	1,113,171	59,783
1951 ²	(NA)	156,489	544,556	118,440	246,959	392,223	1,018,667	87,358
1950 ²		146,929	449,862	110,296	224,957	320,032	925,762	
1949 ²		140,020	414,982	106,737	217,271	289,046	795,502	(NA)
1947.....	2,963	140,397	372,285	112,467		275,411	671,008	64,686
1939.....	2,541	88,054	114,087	64,773		72,889	243,390	
1929.....	3,317	97,414	137,243	81,678		102,327	323,820	
1919.....	5,104	98,470	122,168	79,196	(NA)	88,381	221,757	(NA)
1909.....	5,528	73,037	43,514	61,635		32,542	88,531	
1899.....	4,828	49,579	22,253	44,420		18,021	47,092	
Missouri:								
1954 ¹	6,198	368,479	1,420,103	285,378	552,691	977,327	2,727,266	124,394
1953 ²		392,950	1,499,153	314,145	621,328	1,083,365	2,786,829	112,844
1952 ²		369,108	1,325,108	292,704	580,437	942,611	2,422,709	124,206
1951 ²	(NA)	349,168	1,142,343	279,791	538,259	815,322	2,177,950	101,990
1950 ²		330,813	1,003,357	265,312	521,661	720,622	2,045,318	
1949 ²		317,662	914,845	253,984	493,180	639,496	1,731,153	(NA)
1947.....	5,721	327,114	826,179	269,394		606,825	1,620,887	132,166
1939.....	4,487	220,269	280,667	175,983		187,514	581,804	
1929.....	5,765	240,602	332,278	202,879		240,369	777,497	
1919.....	8,175	235,772	273,722	193,754	(NA)	194,927	534,616	(NA)
1909.....	8,375	177,479	109,837	152,993		80,843	219,700	
1899.....	6,853	120,178	60,009	107,704		46,714	132,115	
North Dakota:								
1954 ¹	367	5,604	19,189	3,913	8,323	12,517	34,991	16,244
1953 ²		7,796	24,175	5,398	9,996	15,958	46,765	3,694
1952 ²	(NA)	5,896	16,745	4,049	8,926	11,134	31,201	(S)
1947.....	361	5,209	12,321	3,817		8,476	29,431	2,250
1939.....	342	4,075	4,968	2,605		2,737	10,984	
1929.....	373	5,017	7,762	4,024	(NA)	5,687	15,637	(NA)
1919.....	755	5,033	6,424	4,169		5,033	12,198	
1909.....	752	3,425	2,416	2,789		1,787	5,464	
1899.....	337	1,510	801	1,358		671	2,109	
South Dakota:								
1954 ¹	546	11,531	41,096	8,414	17,990	27,977	77,692	3,444
1953 ²		10,441	37,038	7,619	16,122	26,920	80,703	3,270
1952 ²	(NA)	11,554	41,937	9,931	21,460	33,625	76,022	2,148
1947.....	494	10,265	25,796	8,062		19,193	51,398	3,371
1939.....	450	7,327	9,036	5,421		5,905	19,619	
1929.....	615	7,803	10,691	6,535	(NA)	8,132	22,681	(NA)
1919.....	1,054	6,774	8,773	5,588		6,751	17,070	
1909.....	1,020	4,284	2,914	3,602		2,298	6,394	
1899.....	624	2,512	1,305	2,224		1,130	3,046	

See footnotes at end of table.

GENERAL SUMMARY

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Table 4B.—GENERAL STATISTICS FOR ALL OPERATING MANUFACTURING ESTABLISHMENTS BY DIVISIONS, STATES, AND STANDARD METROPOLITAN AREAS:
1954 AND EARLIER YEARS—Continued

(For explanation of column captions see Introduction)

Division, State, Standard Metropolitan Area, and Year	Establish- ments, number	All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new (\$1,000)					
		Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)							
West North Central—Continued													
Nebraska:													
1954 ¹	1,423	{	56,996	213,732	43,431	90,351	150,728	394,222	36,414				
1953 ²			57,424	210,073	45,006	93,247	152,862	401,398	19,342				
1952 ²			53,031	185,996	41,779	90,885	135,564	344,436	21,807				
1951 ²			(NA)	50,651	166,796	40,433	86,725	124,996	336,725	16,853			
1950 ²				47,984	147,617	36,371	77,894	101,644	270,579	(NA)			
1949 ²				45,276	123,114	34,942	70,194	84,289	219,880				
1947.....	1,341	{	47,014	119,884	37,325	{	87,400	260,598	18,402				
1939.....	1,093		26,183	34,138	18,416		20,175	68,139					
1929.....	1,491		34,752	51,347	28,212		(NA)	36,881		119,994			
1919.....	2,385		44,924	60,138	35,387			44,513		112,646	(NA)		
1909.....	2,500		29,444	19,439	24,336			13,948		47,938			
1899.....	1,695		20,965	10,950	18,669			8,842		34,377			
Kansas:													
1954 ¹	2,139		{	131,017	558,457			98,187		203,102		400,619	1,049,291	53,017
1953 ²		136,886		563,615	107,039	222,103	415,734	1,000,724	58,714				
1952 ²		140,346		548,033	112,138	242,949	412,987	971,356	54,779				
1951 ²		(NA)		111,874	417,134	89,267	201,281	313,928	749,333	74,264			
1950 ²				87,622	283,031	69,982	147,475	209,397	613,500	(NA)			
1949 ²				82,090	243,790	63,767	129,551	174,038	499,492				
1947.....	1,946	{	74,634	204,840	59,370	{	151,299	461,110	36,787				
1939.....	1,418		42,564	56,412	30,935		36,088	117,391					
1929.....	1,916		57,341	85,210	47,373		(NA)	63,348		205,367			
1919.....	3,149		72,479	93,581	60,179			71,888		161,566	(NA)		
1909.....	3,435		51,078	33,255	44,215			25,904		66,220			
1899.....	2,299		30,731	15,925	27,119			12,802		33,271			
South Atlantic:													
1954 ¹	30,530		{	1,745,372	5,480,901			1,466,333		2,847,757		4,072,169	10,657,729	789,254
1953 ²		1,783,099		5,493,716	1,525,603	3,000,697	4,270,016	10,686,205	760,852				
1952 ²		1,722,184		5,010,227	1,484,507	2,902,768	3,903,100	9,656,904	687,892				
1951 ²		(NA)		1,667,970	4,641,801	1,451,120	2,843,829	3,647,683	9,316,475	795,660			
1950 ²				1,604,261	4,066,254	1,388,791	2,728,620	3,217,890	8,471,115	(NA)			
1949 ²				1,502,335	3,611,821	1,301,533	2,504,937	2,819,696	7,074,658				
1947.....	24,000	{	1,523,890	3,371,438	1,344,836	{	2,710,001	6,941,906	677,651				
1939.....	16,657		1,110,704	1,073,672	977,596		818,075	2,216,976					
1929.....	20,860		999,995	1,035,670	912,247		(NA)	825,903		2,458,223			
1919.....	28,682		896,592	940,127	812,122			771,839		1,846,999	(NA)		
1909.....	28,088		715,047	301,652	663,015			244,379		591,182			
1899.....	19,324		482,712	153,274	458,344			130,864		316,115			
Delaware:													
1954 ¹	556		{	39,418	151,269			30,988		60,451		104,882	353,083	23,375
1953 ²		43,493		164,641	33,817	68,176	118,736	378,975	27,024				
1952 ²		45,367		164,913	36,530	73,832	121,142	372,445	31,511				
1951 ²		(NA)		43,506	142,977	35,578	70,870	105,733	326,715	22,814			
1950 ²				40,928	121,435	34,116	66,465	89,388	287,592	(NA)			
1949 ²				37,075	106,528	30,456	61,637	77,601	229,813				
1947.....	483	{	34,738	92,858	29,275	{	70,578	183,073	21,137				
1939.....	416		23,360	29,114	19,825		21,163	54,085					
1929.....	460		26,556	37,407	23,552		(NA)	29,063		69,151			
1919.....	653		33,231	44,914	28,994			37,214		79,547	(NA)		
1909.....	726		23,262	12,618	21,238			10,296		21,902			
1899.....	633		21,751	9,794	20,562			8,457		16,596			
Maryland:													
1954 ¹	3,253		{	253,144	987,559			195,916		384,180		675,056	1,888,585	93,839
1953 ²		259,303		1,001,510	205,621	413,793	719,048	1,854,582	115,935				
1952 ²		258,339		907,367	206,978	411,676	652,243	1,706,104	96,598				
1951 ²		(NA)		248,065	841,658	200,199	415,743	609,380	1,603,006	98,208			
1950 ²				220,505	672,354	176,512	357,589	488,119	1,455,095	(NA)			
1949 ²				209,577	612,450	169,373	328,866	439,258	1,203,069				
1947.....	2,826	{	228,655	612,296	188,696	{	458,282	1,139,240	123,599				
1939.....	2,712		166,091	209,193	140,930		155,938	420,589					
1929.....	3,231		150,906	195,013	131,099		(NA)	148,835		422,097			
1919.....	4,725		159,362	188,223	139,241			146,578		322,092	(NA)		
1909.....	4,837		120,113	59,053	107,921			45,436		116,620			
1899.....	3,886		100,911	39,260	94,170			32,414		81,722			
District of Columbia:													
1954 ¹	484		{	20,399	90,083			11,821		22,390		44,743	157,213	6,536
1953 ²		19,228		88,259	9,781	19,391	37,297	150,687	3,733				
1952 ²		17,930		71,481	9,859	(S)	36,047	129,422	3,884				
1951 ²		(NA)		17,175	65,634	9,944	(S)	33,254	126,803	6,983			
1950 ²				17,118	60,905	10,006	(S)	31,664	113,746	(NA)			
1949 ²				16,854	58,618	9,690	(S)	31,463	123,340				
1947.....	428	{	17,815	55,872	10,007	{	27,691	99,067	4,502				
1939.....	452		14,377	24,920	7,676		11,505	43,367					
1929.....	547		14,002	25,449	9,752		(NA)	15,513		52,773			
1919.....	568		13,327	18,537	10,268			12,960		37,404	(NA)		
1909.....	518		9,283	6,835	7,707			4,989		15,043			
1899.....	491		7,112	3,895	6,155			3,023		8,951			

See footnotes at end of table.

GENERAL SUMMARY

Table 4B.—GENERAL STATISTICS FOR ALL OPERATING MANUFACTURING ESTABLISHMENTS BY DIVISIONS, STATES, AND STANDARD METROPOLITAN AREAS:
1954 AND EARLIER YEARS—Continued

(For explanation of column captions see Introduction)

Division, State, Standard Metropolitan Area, and Year	Establish- ments, number	All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new (\$1,000)		
		Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
South Atlantic—Continued										
Virginia:										
1954 ¹	4,398	{	239,733	760,454	202,654	394,735	576,844	1,629,041	109,887	
1953 ²			253,796	781,301	217,783	424,413	616,717	1,629,938	134,874	
1952 ²			238,446	701,957	204,207	402,061	550,390	1,467,005	88,642	
1951 ²			(NA)	229,198	633,953	197,146	381,450	494,011	1,447,535	127,952
1950 ²			222,103	563,404	192,484	374,658	445,475	1,326,495	(NA)	
1949 ²		212,516	509,168	185,250	352,611	399,410	1,085,249			
1947.....	3,643		216,507	483,575	189,942		384,293	1,050,623	112,383	
1939.....	2,494		150,202	150,359	132,089		113,848	376,259		
1929.....	3,287		131,586	147,352	120,273	(NA)	118,089	380,086		
1919.....	5,487		132,842	145,423	118,976		119,583	271,131	(NA)	
1909.....	5,685		114,227	47,256	105,676		38,155	94,211		
1899.....	3,186		70,051	23,903	66,223		20,274	49,285		
West Virginia:										
1954 ¹	2,027	{	118,568	472,560	97,322	185,651	354,666	988,274	98,883	
1953 ²			130,032	502,625	108,419	212,296	393,764	1,105,374	96,527	
1952 ²			131,014	462,132	110,657	210,557	361,141	1,009,176	93,838	
1951 ²			(NA)	134,609	451,326	114,761	222,585	355,654	1,036,456	107,716
1950 ²			124,420	376,849	105,901	204,807	299,941	882,401	(NA)	
1949 ²		120,550	345,308	100,946	193,186	267,602	719,921			
1947.....	1,602		127,354	337,869	108,985		268,469	663,903	82,332	
1939.....	1,094		87,741	113,660	74,411		87,760	213,284		
1929.....	1,488		93,565	136,291	85,326	(NA)	115,295	251,615		
1919.....	2,627		90,651	118,898	82,615		101,310	199,568	(NA)	
1909.....	2,586		68,864	38,710	63,893		33,000	69,072		
1899.....	1,824		34,824	14,159	33,080		12,640	29,779		
North Carolina:										
1954 ¹	6,645	{	430,001	1,157,416	380,089	719,429	915,683	2,210,463	129,622	
1953 ²			442,719	1,185,639	395,554	760,806	973,921	2,274,019	126,758	
1952 ²			414,943	1,071,309	373,768	718,299	883,149	2,013,824	117,058	
1951 ²			(NA)	409,776	1,019,722	370,698	705,509	844,282	1,948,452	135,201
1950 ²			405,583	947,406	367,263	716,036	788,662	1,862,825	(NA)	
1949 ²		366,059	806,324	333,633	627,350	671,737	1,627,572			
1947.....	5,321		381,438	758,757	350,177		641,917	1,646,030	137,583	
1939.....	3,158		293,258	245,879	269,238		198,519	544,181		
1929.....	3,797		226,425	198,810	209,826	(NA)	160,868	693,013		
1919.....	5,690		167,848	148,361	156,376		124,978	413,707	(NA)	
1909.....	4,931		128,002	41,259	121,473		34,355	94,795		
1899.....	3,465		75,216	16,447	72,322		14,052	40,420		
South Carolina:										
1954 ¹	2,720	{	219,447	632,709	190,119	378,931	486,960	1,040,936	59,629	
1953 ²			221,860	606,907	201,047	404,250	513,537	1,056,243	58,859	
1952 ²			206,182	558,026	187,241	375,761	466,588	969,926	93,122	
1951 ²			(NA)	199,681	520,455	184,684	364,031	447,697	926,277	130,505
1950 ²			194,408	461,773	178,455	355,418	402,060	857,716	(NA)	
1949 ²		187,678	420,682	169,759	336,067	358,053	719,044			
1947.....	2,135		188,760	377,105	175,889		330,670	793,915	61,743	
1939.....	1,300		136,094	103,171	126,408		86,280	169,294		
1929.....	1,659		113,876	86,023	108,777	(NA)	73,223	159,351		
1919.....	1,821		83,982	72,336	78,918		61,934	152,301	(NA)	
1909.....	1,854		76,303	24,117	73,046		20,361	46,885		
1899.....	1,369		48,444	10,438	47,025		9,130	22,850		
Georgia:										
1954 ¹	5,655	{	301,290	843,557	260,082	503,497	642,582	1,592,411	162,849	
1953 ²			303,017	834,347	263,447	517,355	650,485	1,545,467	93,937	
1952 ²			292,342	742,243	259,268	497,866	587,871	1,355,318	93,331	
1951 ²			(NA)	281,987	685,981	253,182	496,464	556,350	1,332,659	110,159
1950 ²			288,926	640,269	251,117	488,185	513,178	1,235,957	(NA)	
1949 ²		268,335	550,377	235,190	448,583	431,290	1,001,242			
1947.....	4,755		249,958	484,289	225,838		399,862	1,016,079	84,320	
1939.....	3,055		176,965	142,021	155,870		106,195	280,032		
1929.....	4,179		171,734	140,674	158,774	(NA)	110,435	294,649		
1919.....	4,608		135,263	125,503	122,578		100,146	251,098	(NA)	
1909.....	4,792		112,895	43,867	104,588		34,805	85,893		
1899.....	3,015		87,151	23,162	83,336		19,958	45,176		
Florida:										
1954 ¹	4,792	{	123,368	385,291	97,338	198,489	270,749	797,721	104,631	
1953 ²			103,973	280,095	84,928	173,080	201,322	568,572	56,122	
1952 ²			(NA)	90,270	221,859	72,937	150,243	159,403	449,288	(NA)
1951 ²			83,691	202,366	67,236	141,170	143,282	365,408		
1949 ²			78,665	168,817	66,027		128,239	349,976	50,052	
1947.....	1,976		62,616	55,355	51,149		36,847	115,885		
1939.....	2,212		71,345	68,651	64,868	(NA)	54,582	135,488		
1919.....	2,503		80,086	77,932	74,156		67,136	120,151	(NA)	
1909.....	2,159		62,098	27,937	57,473		22,982	46,761		
1899.....	1,275		37,252	12,216	35,471		10,916	21,336		

See footnotes at end of table.

Table 4B.—GENERAL STATISTICS FOR ALL OPERATING MANUFACTURING ESTABLISHMENTS BY DIVISIONS, STATES, AND STANDARD METROPOLITAN AREAS:
1954 AND EARLIER YEARS—Continued

(For explanation of column captions see Introduction)

Division, State, Standard Metropolitan Area, and Year	Establishments, number	All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new (\$1,000)
		Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)		
East South Central:								
1954 ¹	12,854	714,758	2,288,840	601,493	1,166,807	1,713,827	4,701,863	395,995
1953 ²		737,892	2,329,018	632,278	1,237,120	1,808,919	4,666,926	388,260
1952 ²		689,973	2,038,558	592,577	1,152,264	1,576,129	4,038,423	309,568
1951 ²	(NA)	674,266	1,855,321	585,640	1,128,130	1,460,885	3,911,625	310,505
1950 ²		640,233	1,617,376	556,895	1,079,780	1,283,881	3,452,683	(NA)
1949 ²		594,336	1,407,008	516,070	1,004,131	1,109,491	2,839,430	
1947.....	10,911	635,445	1,363,617	559,827		1,096,474	2,884,391	256,002
1939.....	7,024	410,008	389,733	355,096		288,656	823,101	
1929.....	9,860	416,905	440,520	377,870	(NA)	348,734	924,428	(NA)
1919.....	14,094	364,878	367,639	327,352		296,470	660,223	
1909.....	15,381	288,257	131,200	261,772		102,192	294,325	
1899.....	10,058	188,412	66,388	177,208		56,004	148,579	
Kentucky:								
1954 ¹	2,651	146,434	529,206	119,218	233,719	383,945	1,236,260	124,037
1953 ²		148,977	524,492	124,405	244,876	397,182	1,213,002	103,141
1952 ²		143,599	469,382	120,462	237,204	353,645	1,078,041	76,003
1951 ²	(NA)	145,709	457,580	122,983	244,676	349,158	1,093,896	77,243
1950 ²		136,727	385,478	116,333	228,281	296,840	957,640	(NA)
1949 ²		123,711	331,713	103,847	204,808	250,085	799,482	
1947.....	2,245	129,553	304,782	110,648		236,085	743,322	77,135
1939.....	1,582	76,504	89,004	62,481		61,592	186,485	
1929.....	2,246	88,583	113,623	77,825	(NA)	88,644	236,080	(NA)
1919.....	3,767	79,261	85,845	68,726		66,261	158,498	
1909.....	4,776	74,010	37,491	65,400		27,888	111,975	
1899.....	3,648	56,091	22,639	51,735		18,454	59,102	
Tennessee:								
1954 ¹	4,058	260,599	850,175	214,027	418,378	612,461	1,678,786	152,700
1953 ²		272,617	891,674	228,422	452,532	666,619	1,685,237	156,438
1952 ²		258,279	788,677	216,164	429,463	585,140	1,469,462	102,586
1951 ²	(NA)	237,604	656,204	203,826	393,845	503,702	1,294,384	105,227
1950 ²		222,990	576,346	192,368	374,784	446,577	1,174,446	(NA)
1949 ²		213,090	507,329	183,631	364,950	400,571	981,069	
1947.....	3,345	222,300	474,978	193,197		371,637	961,385	83,792
1939.....	2,225	152,179	149,525	131,024		108,828	318,378	
1929.....	2,855	142,020	149,080	128,400	(NA)	115,877	322,898	(NA)
1919.....	4,426	107,725	105,861	94,564		80,687	210,201	
1909.....	4,609	82,257	37,438	73,840		28,252	76,201	
1899.....	3,116	49,292	17,775	45,963		14,728	38,190	
Alabama:								
1954 ¹	3,893	217,084	672,109	188,414	357,780	528,618	1,319,192	82,248
1953 ²		223,139	675,265	197,217	380,367	550,894	1,311,436	98,571
1952 ²		209,197	593,046	186,063	352,815	486,438	1,139,198	101,580
1951 ²	(NA)	211,950	572,961	188,999	357,807	473,499	1,192,019	89,042
1950 ²		207,544	511,374	183,741	357,166	425,467	1,039,831	(NA)
1949 ²		190,261	449,154	169,443	321,350	363,597	836,916	
1947.....	3,336	206,239	444,887	185,700		372,510	877,416	72,362
1939.....	1,982	129,261	114,706	115,698		91,106	245,577	
1929.....	2,848	130,034	126,390	119,559	(NA)	102,005	258,125	(NA)
1919.....	3,522	116,440	116,974	106,679		98,482	190,965	
1909.....	3,398	78,203	33,849	72,148		27,284	62,519	
1899.....	2,000	54,970	16,971	52,711		14,912	34,112	
Mississippi:								
1954 ¹	2,252	90,641	237,350	79,834	156,930	188,803	467,625	37,008
1953 ²		93,159	237,587	82,234	159,345	194,224	457,251	30,110
1952 ²		78,898	187,453	69,888	132,782	150,906	351,722	29,399
1951 ²	(NA)	79,003	168,576	69,832	131,802	134,526	331,326	38,993
1950 ²		72,972	144,178	64,453	119,549	114,997	280,766	(NA)
1949 ²		67,274	118,812	59,149	113,023	95,238	221,963	
1947.....	1,985	77,353	138,970	70,282		116,242	302,268	22,713
1939.....	1,235	52,064	36,498	45,893		27,130	72,661	
1929.....	1,911	56,268	51,427	52,086	(NA)	42,208	107,325	(NA)
1919.....	2,379	61,452	58,959	57,383		51,040	100,559	
1909.....	2,598	53,787	22,422	50,384		18,768	43,630	
1899.....	1,294	28,059	9,003	26,799		7,910	17,175	
West South Central:								
1954 ¹	16,469	713,365	2,678,359	556,370	1,128,594	1,868,084	5,721,035	721,066
1953 ²		716,645	2,599,284	569,839	1,166,989	1,889,694	5,646,834	754,766
1952 ²		662,136	2,291,581	534,757	1,111,965	1,680,018	5,186,213	880,616
1951 ²	(NA)	635,856	2,023,686	520,007	1,065,598	1,497,745	4,809,571	610,952
1950 ²		585,924	1,669,811	469,090	974,187	1,227,347	3,849,399	(NA)
1949 ²		556,462	1,515,529	445,671	915,414	1,092,324	3,069,647	
1947.....	13,183	550,760	1,334,116	456,641		996,258	3,030,203	457,920
1939.....	9,509	330,516	362,542	258,882		234,980	815,276	
1929.....	10,576	341,079	416,742	297,743	(NA)	316,474	950,463	(NA)
1919.....	13,239	323,642	365,389	282,751		290,125	724,099	
1909.....	12,339	227,958	123,028	204,520		97,646	243,312	
1899.....	7,174	121,643	50,049	113,388		42,715	98,803	

See footnotes at end of table.

GENERAL SUMMARY

Table 4B.—GENERAL STATISTICS FOR ALL OPERATING MANUFACTURING ESTABLISHMENTS BY DIVISIONS, STATES, AND STANDARD METROPOLITAN AREAS:
1954 AND EARLIER YEARS—Continued

(For explanation of column captions see Introduction)

Division, State, Standard Metropolitan Area, and Year	Establish- ments, number	All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new (\$1,000)
		Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)		
West South Central—Continued								
Arkansas:								
1954 ¹	2,428	78,391	218,473	67,481	134,479	171,109	457,047	42,715
1953 ²	(NA)	79,575	215,643	68,126	134,236	171,376	427,209	37,990
1952 ²		79,702	206,654	69,976	140,763	166,673	396,134	53,286
1951 ²		75,358	179,591	66,757	126,810	143,700	378,979	31,377
1950 ²		72,090	154,558	62,622	121,817	124,006	320,723	(NA)
1949 ²		62,252	123,306	54,052	108,040	95,447	241,901	
1947.....	1,926	65,802	125,200	58,725	(NA)	102,838	267,516	30,262
1939.....	1,115	41,183	33,352	35,672		24,205	66,444	(NA)
1929.....	1,731	48,747	49,446	44,205		39,503	94,255	
1919.....	3,044	54,234	56,207	49,693		46,909	96,953	
1909.....	2,925	48,275	22,574	44,982		19,113	39,981	
1899.....	1,746	33,074	11,447	31,525	10,184	21,600		
Louisiana:								
1954 ¹	3,020	144,757	531,639	114,378	232,019	375,730	1,181,649	174,396
1953 ²	(NA)	150,808	526,168	121,987	247,186	386,663	1,179,569	222,344
1952 ²		134,147	454,370	109,773	222,463	333,540	1,090,597	215,304
1951 ²		134,055	411,177	112,083	219,130	304,155	1,073,822	135,087
1950 ²		123,952	350,751	100,501	202,449	256,447	915,976	(NA)
1949 ²		117,246	311,369	95,822	196,134	228,674	713,057	
1947.....	2,388	132,463	309,869	111,552	(NA)	229,671	694,062	97,210
1939.....	1,779	87,770	85,273	70,453		54,454	198,527	(NA)
1929.....	1,989	97,551	107,960	87,345		83,867	246,497	
1919.....	2,489	109,853	116,718	97,742		93,858	243,886	
1909.....	2,516	84,268	42,394	76,165		33,386	89,084	
1899.....	1,826	44,454	17,659	40,878	14,725	35,994		
Oklahoma:								
1954 ¹	2,131	79,851	307,902	60,572	122,530	212,183	580,633	51,740
1953 ²	(NA)	77,455	291,280	60,089	123,859	209,819	553,816	57,270
1952 ²		72,172	243,191	57,718	117,320	178,588	493,379	38,272
1951 ²		64,072	205,779	51,244	105,100	150,809	433,706	31,939
1950 ²		58,062	163,185	45,271	92,275	126,065	344,037	(NA)
1949 ²		57,365	158,585	45,690	92,434	116,765	300,775	
1947.....	1,740	55,441	143,634	44,349	(NA)	105,327	341,149	25,504
1939.....	1,530	37,585	47,170	27,642		29,957	101,782	(NA)
1929.....	1,658	38,638	57,604	31,695		41,277	149,404	
1919.....	2,316	35,445	46,234	29,048		34,423	87,551	
1909.....	2,310	15,336	9,285	13,143		7,240	19,530	
1899.....	495	2,650	1,113	2,381	894	2,703		
Texas:								
1954 ¹	8,890	410,364	1,620,344	313,938	639,565	1,109,061	3,501,706	452,214
1953 ²	(NA)	408,807	1,566,193	319,637	661,708	1,121,836	3,486,240	437,162
1952 ²		376,115	1,387,366	297,290	631,419	1,001,217	3,206,103	573,754
1951 ²		362,371	1,227,139	289,923	614,558	899,081	2,923,064	412,549
1950 ²		331,820	1,001,317	260,696	557,646	720,829	2,268,663	(NA)
1949 ²		319,599	922,269	250,107	518,806	651,438	1,813,914	
1947.....	7,129	297,054	755,413	242,015	(NA)	558,422	1,727,476	304,944
1939.....	5,085	163,978	196,747	125,115		126,364	448,523	(NA)
1929.....	5,198	156,143	201,732	134,498		151,827	460,307	
1919.....	5,390	124,110	146,230	106,268		114,935	295,709	
1909.....	4,588	80,079	48,775	70,230		37,907	94,717	
1899.....	3,107	41,465	19,830	38,604	16,912	38,506		
Mountain:								
1954 ¹	6,685	187,493	749,586	144,101	286,848	532,152	1,505,145	126,844
1953 ²	(NA)	183,925	728,013	145,090	292,492	537,725	1,501,645	111,330
1952 ²		172,878	644,895	137,194	279,878	482,035	1,269,597	119,631
1951 ²		164,736	577,878	133,435	271,407	439,031	1,257,762	107,858
1950 ²		154,709	475,231	122,809	247,670	354,347	1,042,063	(NA)
1949 ²		142,600	422,955	114,427	231,750	315,573	782,868	
1947.....	5,044	140,477	375,900	115,144	(NA)	290,285	783,771	95,023
1939.....	3,987	89,409	119,074	67,011		79,099	269,381	(NA)
1929.....	4,319	118,778	181,403	102,492		144,486	370,056	
1919.....	6,675	122,668	169,004	105,794		137,075	303,751	
1909.....	5,254	85,013	69,392	75,435		56,870	135,304	
1899.....	3,146	47,983	31,610	44,497	27,714	76,220		
Montana:								
1954 ¹	868	18,373	71,289	14,677	27,762	54,098	141,234	20,574
1953 ²	(NA)	17,691	71,599	14,683	28,395	56,937	142,045	22,572
1952 ²		17,295	66,610	14,190	28,624	53,007	138,952	10,958
1951 ²		17,102	60,952	14,226	28,192	48,828	149,776	(S)
1950 ²		16,645	51,942	13,614	26,314	40,842	107,837	(NA)
1949 ²		16,057	47,316	13,457	25,614	36,983	82,180	
1947.....	650	15,838	42,770	13,380	(NA)	34,791	90,845	7,446
1939.....	552	11,939	17,286	8,802		11,697	38,828	(NA)
1929.....	589	17,135	29,470	14,869		24,215	61,249	
1919.....	1,235	18,893	28,623	16,640		23,968	43,079	
1909.....	677	13,035	12,955	11,655		10,901	24,092	
1899.....	395	10,362	8,163	9,854	7,377	22,677		

See footnotes at end of table.

Table 4B.—GENERAL STATISTICS FOR ALL OPERATING MANUFACTURING ESTABLISHMENTS BY DIVISIONS, STATES, AND STANDARD METROPOLITAN AREAS:
1954 AND EARLIER YEARS—Continued

(For explanation of column captions see Introduction)

Division, State, Standard Metropolitan Area, and Year	Establish- ments, number	All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new (\$1,000)
		Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)		
Mountain—Continued								
Idaho:								
1954 ¹	981	23,722	89,507	20,266	39,442	72,159	182,276	20,627
1953 ²	(NA)	23,218	86,173	19,558	39,143	70,238	166,904	16,818
1952 ²		19,623	81,149	17,917	37,059	68,429	142,553	24,861
1951 ²		19,313	76,821	18,784	38,836	66,464	147,853	(S)
1950 ²		15,815	56,784	14,562	30,457	46,542	118,675	(NA)
1949 ²		15,250	50,082	13,901	29,247	43,216	91,702	
1947.....	664	16,907	45,748	14,602	(NA)	37,904	109,694	11,447
1939.....	498	11,719	14,697	9,854		11,490	29,788	
1929.....	562	17,023	25,488	15,648		22,452	44,489	(NA)
1919.....	803	15,022	20,639	13,575		18,014	35,659	
1909.....	725	9,078	6,482	8,220		5,498	12,480	
1899.....	287	1,644	884	1,552		818	1,563	
Wyoming:								
1954 ¹	328	6,228	26,774	4,587	9,160	18,777	51,361	6,899
1953 ²	(NA)	6,981	32,293	5,516	11,018	23,233	54,099	14,423
1952 ²		5,469	23,806	4,241	9,032	17,346	38,094	15,142
1951 ²		5,874	21,709	4,938	8,632	16,429	37,245	6,098
1950 ²		7,082	22,734	6,083	10,974	18,308	37,739	(NA)
1949 ²		6,233	20,353	5,152	9,902	16,349	29,513	
1947.....	256	5,607	16,696	4,285	(NA)	12,291	34,957	10,235
1939.....	300	4,416	6,641	3,351		4,613	15,336	
1929.....	248	7,154	12,544	6,258		10,255	33,628	(NA)
1919.....	437	7,108	12,227	6,271		10,587	38,142	
1909.....	268	3,130	2,392	2,867		2,081	3,641	
1899.....	139	2,147	1,300	2,060		1,209	1,899	
Colorado:								
1954 ¹	2,069	63,041	247,110	47,941	95,782	172,995	472,433	30,121
1953 ²	(NA)	58,864	230,377	46,269	93,841	167,807	438,466	26,583
1952 ²		58,577	209,178	45,450	89,951	150,500	397,464	34,183
1951 ²		57,344	191,358	44,340	89,258	139,252	393,899	31,141
1950 ²		55,657	161,773	42,959	84,415	116,176	340,795	(NA)
1949 ²		49,565	145,271	38,897	80,012	103,237	278,626	
1947.....	1,602	54,071	144,207	44,153	(NA)	109,734	286,774	32,189
1939.....	1,219	32,234	43,953	23,388		28,038	90,330	
1929.....	1,548	39,113	57,221	32,890		43,640	122,331	(NA)
1919.....	2,230	40,786	53,770	33,759		41,020	97,195	
1909.....	2,034	32,393	25,560	28,067		19,912	49,553	
1899.....	1,323	21,368	13,766	19,498		11,708	28,317	
New Mexico:								
1954 ¹	593	14,955	62,213	9,380	18,518	32,635	126,326	6,585
1953 ²	(NA)	12,737	57,479	10,350	22,148	39,391	129,248	3,932
1952 ²		15,364	60,515	12,175	24,407	44,348	128,211	4,773
1951 ²		14,721	50,423	11,041	20,690	35,726	121,633	5,060
1950 ²		13,514	38,950	10,755	20,360	27,832	102,897	(NA)
1949 ²		8,740	24,454	7,794	14,937	20,850	51,694	
1947.....	431	6,696	14,964	5,530	(NA)	11,438	32,136	5,431
1939.....	262	4,107	4,182	3,219		2,875	8,640	
1929.....	250	5,070	6,831	4,476		5,565	11,278	(NA)
1919.....	387	6,310	7,686	5,736		6,658	10,129	
1909.....	313	4,478	2,974	4,143		2,591	4,637	
1899.....	174	2,578	1,290	2,490		1,199	2,062	
Arizona:								
1954 ¹	817	26,090	109,868	20,267	42,319	80,563	192,497	13,800
1953 ²	(NA)	23,565	97,778	17,113	36,548	69,368	231,128	7,199
1952 ²		20,968	79,103	15,908	33,885	58,322	159,753	11,193
1951 ²		17,415	60,831	14,018	29,886	47,683	156,762	9,483
1950 ²		14,695	49,621	11,470	25,377	35,744	127,946	(NA)
1949 ²		14,252	43,947	10,229	23,810	30,466	91,681	
1947.....	544	14,188	39,333	11,167	(NA)	29,680	83,829	8,328
1939.....	313	7,996	10,988	5,905		6,955	31,625	
1929.....	348	12,209	19,343	10,550		15,075	32,289	(NA)
1919.....	399	9,652	14,725	8,297		11,658	27,478	
1909.....	311	6,941	6,303	6,441		5,505	16,656	
1899.....	154	3,331	2,557	3,126		2,287	12,562	
Utah:								
1954 ¹	852	29,364	117,520	22,553	44,790	82,442	276,343	23,385
1953 ²	(NA)	34,344	123,290	26,878	51,506	89,860	272,449	15,009
1952 ²		32,245	110,853	25,045	51,737	81,513	229,876	17,076
1951 ²		30,061	105,273	24,263	51,483	77,886	223,221	25,057
1950 ²		28,445	82,443	21,868	46,442	62,706	177,504	(NA)
1949 ²		29,296	80,670	22,849	42,759	57,057	138,268	
1947.....	771	24,503	63,773	19,963	(NA)	48,031	128,250	16,988
1939.....	549	15,537	18,970	11,467		11,873	43,341	
1929.....	651	18,510	26,107	15,601		19,699	56,727	(NA)
1919.....	1,035	21,526	26,524	18,442		20,931	45,831	
1909.....	749	13,445	10,366	11,785		8,400	20,724	
1899.....	575	6,012	3,263	5,413		2,763	6,541	

See footnotes at end of table.

GENERAL SUMMARY

Table 4B.—GENERAL STATISTICS FOR ALL OPERATING MANUFACTURING ESTABLISHMENTS BY DIVISIONS, STATES, AND STANDARD METROPOLITAN AREAS:
1954 AND EARLIER YEARS—Continued

(For explanation of column captions see Introduction)

Division, State, Standard Metropolitan Area, and Year	Establish- ments, number	All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new (\$1,000)
		Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)		
Mountain—Continued								
Nevada:								
1954 ¹	177	5,717	25,301	4,426	9,074	18,480	62,672	4,850
1953 ²	(NA)	6,525	29,024	4,723	9,893	20,891	67,306	4,794
1952 ²		3,337	13,681	2,268	5,183	8,570	34,694	(S)
1951 ²		2,906	10,511	1,825	4,430	6,763	27,373	1,774
1950 ²		2,856	10,984	1,498	3,331	6,197	28,670	(NA)
1949 ²		3,207	10,862	2,148	5,469	7,415	19,204	2,959
1947.....	126	2,667	8,409	2,064	(NA)	6,416	17,286	
1939.....	94	1,461	2,357	1,025		1,558	11,493	
1929.....	123	2,564	4,399	2,200		3,585	8,065	
1919.....	149	3,371	4,810	3,074		4,239	6,238	
1909.....	177	2,513	2,360	2,257		1,982	3,521	(NA)
1899.....	99	541	387	504	353	599		
Pacific:								
1954 ¹	35,308	1,354,481	6,047,958	1,035,020	2,027,074	4,186,203	11,183,970	764,743
1953 ²	(NA)	1,358,954	5,964,162	1,062,786	2,108,957	4,266,681	10,620,983	662,876
1952 ²		1,260,175	5,236,957	992,056	1,966,435	3,796,655	9,459,239	662,170
1951 ²		1,160,329	4,529,402	920,344	1,826,938	3,311,189	8,423,245	660,178
1950 ²		1,018,087	3,575,727	804,465	1,577,647	2,598,278	7,041,285	(NA)
1949 ²		923,120	3,115,634	733,692	1,429,295	2,249,729	5,727,800	
1947.....	24,132	913,715	2,820,152	745,869	(NA)	2,139,537	5,544,019	553,678
1939.....	16,319	523,439	764,247	411,038		536,528	1,546,957	
1929.....	18,154	555,534	909,964	471,246		670,599	1,922,882	
1919.....	17,116	485,308	685,090	426,005		568,266	1,263,163	
1909.....	13,579	242,576	190,638	213,166		153,809	349,833	
1899.....	8,329	133,329	74,558	123,206	63,777	140,849	(NA)	
Washington:								
1954 ¹	4,929	192,354	842,660	148,759	280,777	594,668	1,549,060	147,130
1953 ²	(NA)	188,708	814,495	151,903	290,379	614,962	1,482,007	95,432
1952 ²		199,559	806,575	163,783	308,801	625,611	1,445,293	140,488
1951 ²		192,081	753,834	159,585	304,081	590,253	1,343,983	94,829
1950 ²		161,047	560,249	133,809	256,465	439,206	1,113,362	(NA)
1949 ²		156,399	512,987	129,746	246,410	396,433	926,630	
1947.....	3,409	144,252	437,802	123,442	(NA)	354,445	874,021	81,476
1939.....	2,858	99,119	142,565	82,261		108,220	267,716	
1929.....	3,672	128,740	196,575	114,830		160,671	367,149	
1919.....	4,356	144,331	222,482	131,241		192,473	361,907	
1909.....	3,674	76,854	59,593	69,120		49,766	102,859	
1899.....	1,926	33,626	19,129	31,523	17,065	32,554	(NA)	
Oregon:								
1954 ¹	5,870	134,343	561,580	114,464	214,740	447,741	1,037,456	67,811
1953 ²	(NA)	131,365	550,555	112,887	213,857	448,287	985,834	63,377
1952 ²		136,589	539,818	119,267	222,662	450,663	1,049,151	80,154
1951 ²		131,750	496,085	114,710	215,523	411,621	945,875	106,364
1950 ²		118,722	406,472	101,997	195,181	333,176	806,947	(NA)
1949 ²		111,060	362,300	96,634	182,819	297,843	633,136	
1947.....	3,075	105,591	317,827	92,144	(NA)	265,837	675,017	61,669
1939.....	1,903	67,222	87,938	57,487		69,574	156,696	
1929.....	2,463	73,865	106,242	65,505		86,829	206,542	
1919.....	2,478	64,596	93,906	57,832		80,067	158,763	
1909.....	2,246	32,223	23,949	28,750		19,902	42,452	
1899.....	1,406	15,602	8,044	14,459	6,822	15,804	(NA)	
California:								
1954 ¹	24,509	1,027,784	4,643,717	771,796	1,531,557	3,143,793	8,597,453	549,801
1953 ²	(NA)	1,038,881	4,599,112	797,996	1,604,721	3,203,432	8,153,142	504,067
1952 ²		924,027	3,890,564	709,006	1,434,972	2,720,381	6,964,795	441,528
1951 ²		836,498	3,279,483	646,049	1,307,334	2,309,315	6,133,387	478,985
1950 ²		738,318	2,609,006	568,659	1,126,001	1,825,896	5,120,976	(NA)
1949 ²		655,661	2,240,347	507,312	1,000,066	1,555,453	4,168,034	
1947.....	17,648	663,872	2,064,523	530,283	(NA)	1,519,255	3,994,981	410,533
1939.....	11,558	357,098	533,744	271,290		358,734	1,122,545	
1929.....	12,019	352,929	607,147	290,911		423,099	1,349,191	
1919.....	10,282	276,381	368,702	236,932		295,726	742,493	
1909.....	7,659	133,499	107,096	115,296		84,141	204,522	
1899.....	4,997	84,101	47,385	77,224	39,890	92,491	(NA)	
STANDARD METROPOLITAN AREAS ³								
Akron:								
1954 ¹	669	85,905	389,094	63,170	114,746	259,900	619,497	33,909
1947.....	482	94,011	284,302	75,289	(NA)	215,444	460,327	28,744
1939.....	324	52,602	96,759	40,114		65,463	166,444	(NA)
1929.....	353	77,093	132,202	66,871		106,477	280,546	
1919.....	405	(NA)	(NA)	71,050		102,708	261,175	
Albany-Schenectady-Troy:								
1954 ¹	675	71,981	323,518	51,177	101,649	205,508	584,708	(NA)
1947.....	601	71,388	203,664	55,536	(NA)	147,056	324,346	
1939.....	537	45,899	68,698	36,217		45,981	126,192	
1929.....	677	67,852	105,244	58,771		83,033	178,252	
1919.....	405	(NA)	(NA)	71,050		102,708	261,175	

See footnotes at end of table.

GENERAL SUMMARY

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Table 4B.—GENERAL STATISTICS FOR ALL OPERATING MANUFACTURING ESTABLISHMENTS BY DIVISIONS, STATES, AND STANDARD METROPOLITAN AREAS:
1954 AND EARLIER YEARS—Continued

(For explanation of column captions see Introduction)

Division, State, Standard Metropolitan Area, and Year	Establish- ments, number	All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new (\$1,000)
		Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)		
STANDARD METROPOLITAN AREAS ³ —Continued								
Allentown-Bethlehem-Easton:								
1954 ¹	1,007	90,265	323,179	74,271	140,359	239,744	593,489	43,417
1947.....	898	88,614	222,372	76,351	(NA)	177,547	360,669	31,766
1939.....	662	67,583	80,781	59,181		62,891	158,236	(NA)
1929.....	783	72,461	107,132	64,919		86,508	216,477	
1919.....	1,169	(NA)	(NA)	64,972		72,379	180,335	
Atlanta:								
1954 ¹	1,088	78,500	287,673	61,083	121,790	192,992	552,009	24,684
1947.....	871	49,030	112,164	40,543	(NA)	81,071	237,448	29,448
1939.....	620	31,166	32,302	27,692		24,515	81,663	(NA)
1929.....	625	31,473	37,060	26,554		24,878	94,108	
1919.....	676	(NA)	(NA)	22,362		21,482	60,993	
Baltimore:								
1954 ¹	1,909	188,689	780,813	142,982	282,284	526,305	1,547,473	75,174
1947.....	1,786	170,164	482,904	138,967	(NA)	359,378	900,367	101,913
1939.....	1,885	126,197	171,515	105,786		126,959	342,465	(NA)
1929.....	2,225	110,313	148,187	94,562		110,692	327,520	
1919.....	2,967	(NA)	(NA)	113,068		123,529	277,655	
Binghamton:								
1954 ¹	289	40,502	159,561	32,523	60,697	112,853	268,720	15,213
1947.....	(NA)	35,769	(NA)	(NA)	(NA)	(NA)	159,879	(NA)
Birmingham:								
1954 ¹	605	57,762	236,624	46,169	89,227	170,682	481,580	31,518
1947.....	529	53,359	138,011	44,767	(NA)	106,659	275,630	29,059
1939.....	374	31,988	40,440	28,774		33,000	105,409	(NA)
1929.....	419	36,319	49,542	31,544		37,924	111,211	
1919.....	440	(NA)	(NA)	28,909		33,009	62,540	
Boston:								
1954 ¹	5,474	280,274	1,106,467	211,005	413,125	730,571	1,972,147	68,241
1947.....	5,393	270,932	750,519	215,046	(NA)	530,140	1,377,383	72,932
1939.....	4,378	192,556	273,028	157,230		187,431	508,099	(NA)
Bridgeport:								
1954 ¹	725	64,873	279,486	49,577	98,422	193,654	509,938	17,858
1947.....	584	70,150	203,458	56,033	(NA)	151,709	341,702	19,254
1939.....	422	39,779	55,305	34,348		41,594	104,596	(NA)
Buffalo:								
1954 ¹	1,829	200,801	933,873	152,882	306,577	655,297	1,677,778	139,477
1947.....	1,693	183,876	557,384	149,758	(NA)	424,928	1,023,231	90,261
1939.....	1,356	115,589	183,753	90,244		125,565	391,785	(NA)
1929.....	1,896	128,704	212,117	108,966		160,766	480,123	
1919.....	2,913	(NA)	(NA)	116,633		152,180	346,627	
Canton:								
1954 ¹	456	56,762	247,442	45,351	86,705	184,284	449,371	19,083
1947.....	385	55,564	158,649	47,600	(NA)	128,551	280,241	15,224
1939.....	323	32,342	50,343	28,854		42,061	107,807	(NA)
1929.....	338	36,834	67,456	32,202		54,735	142,508	
1919.....	584	(NA)	(NA)	34,182		47,876	108,670	
Chattanooga:								
1954 ¹	410	42,759	143,569	35,724	69,907	107,515	277,314	33,496
1947.....	(NA)	38,193	(NA)	(NA)	(NA)	(NA)	149,104	(NA)
Chicago:								
1954 ¹	13,456	942,819	4,256,393	718,642	1,419,045	2,897,563	7,893,423	427,396
1947.....	12,285	946,041	2,995,636	756,275	(NA)	2,177,440	5,529,227	421,083
1939.....	9,058	609,940	941,363	478,126		632,529	1,896,111	(NA)
1929.....	11,693	636,464	1,137,863	527,677		830,322	2,477,970	
1919.....	12,399	(NA)	(NA)	520,133		677,239	1,670,150	
Cincinnati:								
1954 ¹	1,814	151,317	673,358	111,515	227,922	438,570	1,318,668	73,023
1947.....	1,688	134,549	379,993	107,364	(NA)	272,127	775,391	48,336
1939.....	1,521	83,466	119,166	72,401		90,159	268,017	(NA)
1929.....	2,189	108,088	167,392	90,468		121,721	359,625	
1919.....	2,721	(NA)	(NA)	97,166		98,908	284,555	
Cleveland:								
1954 ¹	3,744	291,037	1,376,234	222,511	442,641	944,975	2,401,375	217,825
1947.....	3,252	268,232	865,662	218,494	(NA)	644,686	1,543,911	91,864
1939.....	2,441	150,854	240,879	129,358		183,314	504,992	(NA)
1929.....	2,829	191,612	336,550	164,793		257,664	690,275	
1919.....	3,182	(NA)	(NA)	169,813		228,927	518,009	
Columbus (Ohio):								
1954 ¹	792	72,936	314,521	51,934	105,055	204,464	581,383	34,731
1947.....	680	54,925	153,551	42,405	(NA)	105,436	277,964	17,741
1939.....	500	29,380	39,631	25,309		29,658	90,049	(NA)
1929.....	624	32,603	50,730	27,562		36,911	111,403	
1919.....	774	(NA)	(NA)	31,573		37,447	82,882	

See footnotes at end of table.

GENERAL SUMMARY

Table 4B.—GENERAL STATISTICS FOR ALL OPERATING MANUFACTURING ESTABLISHMENTS BY DIVISIONS, STATES, AND STANDARD METROPOLITAN AREAS:
1954 AND EARLIER YEARS—Continued

(For explanation of column captions see Introduction)

Division, State, Standard Metropolitan Area, and Year	Establish- ments, number	All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new (\$1,000)
		Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)		
STANDARD METROPOLITAN AREAS ³ —Continued								
Dallas:								
1954 ¹	1,369	72,770	290,812	52,757	107,581	181,510	508,271	20,021
1947.....	(NA)	38,828	(NA)	(NA)	(NA)	(NA)	238,839	(NA)
Dayton:								
1954 ¹	770	97,117	463,019	78,375	157,717	350,009	747,419	48,741
1947.....	638	95,347	308,299	79,433	(NA)	240,266	496,380	40,150
1939.....	481	50,532	84,491	40,200		60,874	164,963	(NA)
1929.....	555	51,874	87,605	43,778		66,085	216,284	
1919.....	734	(NA)	(NA)	34,331		42,916	103,170	
Denver:								
1954 ¹	1,060	40,774	167,289	29,696	60,466	110,874	313,644	17,953
1947.....	(NA)	34,288	(NA)	(NA)	(NA)	(NA)	183,713	12,100
Detroit:								
1954 ¹	6,159	538,223	2,773,349	434,365	881,589	2,073,287	4,713,167	480,818
1947.....	4,761	557,241	1,852,316	468,170	(NA)	1,457,651	2,912,660	238,738
1939.....	2,684	372,882	655,102	315,221		517,849	1,087,575	(NA)
1929.....	2,844	328,414	626,246	290,980		507,375	1,216,159	
1919.....	2,634	(NA)	(NA)	264,961		402,488	958,755	
Erie:								
1954 ¹	422	40,488	171,969	31,786	62,089	122,133	286,397	13,882
1947.....	368	46,285	134,693	38,076	(NA)	103,640	224,906	17,815
1939.....	296	22,974	33,380	19,216		24,985	72,110	(NA)
1929.....	366	27,352	45,082	23,022		33,568	91,258	
1919.....	455	(NA)	(NA)	22,944		28,930	70,441	
Fall River: ⁴								
1954 ¹	343	26,990	73,942	24,650	44,276	61,535	111,675	3,702
Flint:								
1954 ¹	286	75,410	387,681	53,979	137,996	316,466	713,846	149,069
1947.....	213	54,774	170,845	47,521	(NA)	140,170	323,205	29,579
1939.....	134	36,878	68,734	33,072		59,244	133,499	(NA)
1929.....	136	35,843	62,606	32,001		52,642	142,654	
1919.....	151	(NA)	(NA)	24,884		38,589	103,901	
Fort Worth:								
1954 ¹	601	48,367	211,122	37,308	73,993	148,799	368,152	16,527
1947.....	(NA)	32,039	(NA)	(NA)	(NA)	(NA)	146,501	(NA)
Grand Rapids:								
1954 ¹	776	52,337	244,270	41,221	86,735	177,077	454,194	27,710
1947.....	694	49,241	147,276	41,961	(NA)	114,990	255,255	15,006
1939.....	468	27,155	37,258	23,882		29,168	71,736	(NA)
1929.....	561	35,063	57,548	30,979		44,756	96,706	
1919.....	700	(NA)	(NA)	25,640		28,395	63,336	
Hartford:								
1954 ¹	728	76,146	335,065	58,945	121,337	236,367	530,171	21,912
1947.....	583	63,772	189,081	51,999	(NA)	142,650	300,152	18,244
1939.....	415	38,083	59,715	31,588		44,112	118,126	(NA)
Houston:								
1954 ¹	1,410	77,756	362,976	57,532	118,601	243,154	868,747	87,235
1947.....	915	58,254	181,794	45,671	(NA)	131,073	384,718	86,841
1939.....	620	27,116	41,566	22,600		30,423	106,608	(NA)
1929.....	475	26,213	37,909	22,131		28,097	93,498	
1919.....	422	(NA)	(NA)	11,411		12,173	31,964	
Indianapolis:								
1954 ¹	1,102	102,233	464,243	74,681	150,971	302,764	844,783	48,209
1947.....	943	92,259	278,506	72,827	(NA)	197,989	483,375	43,610
1939.....	784	50,666	73,782	38,705		47,989	138,633	(NA)
1929.....	902	55,504	84,492	46,339		60,158	178,962	
1919.....	1,028	(NA)	(NA)	52,142		55,083	135,701	
Kansas City:								
1954 ¹	1,513	115,132	497,764	84,903	168,431	336,026	1,039,592	45,821
1947.....	1,347	78,686	218,970	61,735	(NA)	156,262	469,807	50,037
1939.....	1,023	50,680	73,102	38,085		47,410	147,655	(NA)
1929.....	1,163	54,008	80,401	44,203		57,076	222,620	
1919.....	1,392	(NA)	(NA)	48,546		55,322	129,365	
Lancaster:								
1954 ¹	612	42,545	150,619	34,663	68,491	110,273	288,553	16,059
1947.....	(NA)	39,139	(NA)	(NA)	(NA)	(NA)	177,965	(NA)
Los Angeles:								
1954 ¹	14,400	639,802	2,936,808	470,732	944,148	1,930,520	5,041,546	305,165
1947.....	9,771	358,722	1,118,344	281,806	(NA)	797,090	2,052,671	175,327
1939.....	5,505	172,757	258,967	127,425		167,133	517,671	(NA)
1929.....	5,029	127,881	210,001	103,652		151,486	505,380	
1919.....	3,721	(NA)	(NA)	63,255		74,291	183,855	

See footnotes at end of table.

GENERAL SUMMARY

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Table 4B.—GENERAL STATISTICS FOR ALL OPERATING MANUFACTURING ESTABLISHMENTS BY DIVISIONS, STATES, AND STANDARD METROPOLITAN AREAS:
1954 AND EARLIER YEARS—Continued

(For explanation of column captions see Introduction)

Division, State, Standard Metropolitan Area, and Year	Establish- ments, number	All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new (\$1,000)
		Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)		
STANDARD METROPOLITAN AREAS ³ —Continued								
Louisville:								
1954 ¹	814	84,653	354,192	66,502	135,815	252,962	845,031	90,958
1947.....	744	73,853	193,837	60,878	(NA)	144,248	489,435	59,317
1939.....	641	39,770	46,757	35,009		35,581	128,466	(NA)
1929.....	822	49,459	65,304	42,303		48,399	153,178	
1919.....	979	(NA)	(NA)	35,238		34,165	90,721	
Memphis:								
1954 ¹	632	41,804	152,582	32,310	65,441	103,324	336,167	31,773
1947.....	(NA)	36,042	(NA)	(NA)	(NA)	(NA)	202,438	(NA)
Milwaukee:								
1954 ¹	1,979	175,802	809,880	129,608	255,419	538,856	1,439,620	68,648
1947.....	1,961	178,412	538,797	141,111	(NA)	396,643	972,613	63,942
1939.....	1,465	94,774	147,996	79,473		111,135	287,667	(NA)
1929.....	1,939	141,068	233,200	117,658		170,962	434,038	
1919.....	2,247	(NA)	(NA)	106,137		117,674	302,457	
Minneapolis-St. Paul:								
1954 ¹	2,246	134,208	582,387	96,346	193,430	374,557	1,081,364	47,303
1947.....	2,115	118,741	353,403	93,909	(NA)	238,955	713,462	48,897
1939.....	1,626	65,359	97,870	48,710		62,577	203,011	(NA)
1929.....	1,939	71,504	106,045	58,342		73,833	261,080	
1919.....	2,389	(NA)	(NA)	67,138		73,866	212,398	
New Bedford: ⁴								
1954 ¹	291	27,852	83,549	24,135	45,906	65,193	130,298	4,378
New Britain-Bristol:								
1954 ¹	393	43,950	178,017	35,207	68,432	134,555	273,394	15,110
1947.....	299	45,708	132,524	38,507	(NA)	105,823	205,103	12,277
1939.....	160	28,408	38,657	23,564		28,555	65,681	(NA)
New Haven:								
1954 ¹	709	46,566	183,239	36,700	72,021	129,200	298,824	15,615
1947.....	577	41,503	115,374	34,394	(NA)	86,140	188,528	11,880
1939.....	459	28,027	33,710	24,528		26,244	69,883	(NA)
New Orleans:								
1954 ¹	856	53,312	193,617	41,423	81,758	135,236	374,873	64,588
1947.....	724	45,363	105,210	37,932	(NA)	78,201	222,995	19,306
1939.....	688	28,679	27,158	25,509		19,931	80,810	(NA)
1929.....	851	31,558	35,893	27,065		24,839	94,120	
1919.....	923	(NA)	(NA)	30,231		27,935	83,836	
New York-Northeastern								
New Jersey:								
1954 ¹	51,403	1,731,977	7,095,016	1,336,116	2,566,509	4,714,688	13,115,922	444,124
1947.....	48,281	1,598,662	4,919,631	1,269,283	(NA)	3,485,822	9,310,900	421,668
1939.....	32,132	1,116,708	1,646,817	867,953		1,062,156	3,126,135	(NA)
1929.....	36,923	1,110,942	1,988,775	910,870		1,399,940	4,452,465	
1919.....	42,293	(NA)	(NA)	1,057,677		1,300,273	3,592,026	
Peoria:								
1954 ¹	313	37,779	167,348	30,211	59,984	124,639	362,496	20,934
1947.....	278	42,511	123,726	34,492	(NA)	94,376	280,670	33,905
1939.....	265	21,962	34,440	18,875		28,023	85,046	(NA)
1929.....	268	18,067	27,840	14,773		20,143	82,024	
1919.....	383	(NA)	(NA)	12,304		13,684	42,519	
Philadelphia:								
1954 ¹	8,079	547,042	2,291,639	419,932	827,015	1,564,348	4,023,700	275,789
1947.....	7,394	531,809	1,530,678	436,996	(NA)	1,139,148	2,772,649	203,521
1939.....	5,756	393,561	555,590	320,627		385,782	1,037,292	(NA)
1929.....	7,136	428,914	663,047	367,784		497,430	1,396,529	
1919.....	11,673	(NA)	(NA)	465,487		567,866	1,303,034	
Pittsburgh:								
1954 ¹	2,381	303,408	1,364,413	239,450	454,510	995,118	2,480,530	164,002
1947.....	2,227	337,928	1,023,833	283,985	(NA)	807,101	1,704,327	139,524
1939.....	1,905	229,353	357,044	191,278		270,370	640,908	(NA)
1929.....	2,544	248,607	423,336	216,481		338,023	835,162	
1919.....	3,796	(NA)	244,991	244,991		366,325	803,556	
Portland (Oregon):								
1954 ¹	1,787	56,729	239,997	44,840	85,943	172,036	475,021	27,190
1947.....	1,298	51,643	153,747	42,675	(NA)	119,893	314,273	36,254
1939.....	943	28,398	38,224	25,017		30,679	79,875	(NA)
1929.....	1,307	38,083	56,783	31,576		42,254	112,605	
1919.....	1,129	(NA)	(NA)	38,075		54,862	111,892	
Providence:								
1954 ¹	2,741	130,825	453,830	108,791	219,308	330,670	744,286	29,218
1947.....	2,366	154,971	397,800	134,268	(NA)	313,131	692,204	37,327
1939.....	1,411	108,620	125,065	95,411		95,033	218,331	(NA)

See footnotes at end of table.

GENERAL SUMMARY

Table 4B.—GENERAL STATISTICS FOR ALL OPERATING MANUFACTURING ESTABLISHMENTS BY DIVISIONS, STATES, AND STANDARD METROPOLITAN AREAS:
1954 AND EARLIER YEARS—Continued

(For explanation of column captions see Introduction)

Division, State, Standard Metropolitan Area, and Year	Establish- ments, number	All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new (\$1,000)
		Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)		
STANDARD METROPOLITAN AREAS ³ —Continued								
Reading:								
1954 ¹	669	49,130	167,369	41,468	78,141	126,928	294,269	17,415
1947.....	616	53,024	135,843	46,373	(NA)	110,795	230,161	19,063
1939.....	493	46,124	53,975	40,537		41,612	83,782	(NA)
1929.....	567	47,525	67,817	43,487		56,302	117,936	
1919.....	1,031	(NA)	(NA)	41,072		39,910	81,355	
Rochester:								
1954 ¹	979	111,385	508,033	83,246	163,733	338,183	919,779	58,810
1947.....	907	107,493	319,227	85,696	(NA)	243,932	514,543	37,011
1939.....	755	67,004	106,494	50,898		70,381	207,730	(NA)
1929.....	1,044	74,107	119,628	62,239		87,844	247,685	
1919.....	1,536	(NA)	(NA)	67,553		73,332	195,916	
St. Louis:								
1954 ¹	3,128	251,766	1,060,335	191,375	373,705	725,307	2,053,083	131,184
1947.....	2,959	244,481	664,597	200,103	(NA)	490,880	1,295,842	118,925
1939.....	2,549	162,238	227,865	126,416		151,860	461,772	(NA)
1929.....	3,258	174,798	259,764	147,449		189,423	609,157	
1919.....	4,011	(NA)	(NA)	154,311		164,281	454,815	
San Diego:								
1954 ¹	595	47,731	221,656	37,310	74,405	156,997	390,218	7,986
1947.....	(NA)	20,783	(NA)	(NA)	(NA)	(NA)	101,548	(NA)
San Francisco-Oakland:								
1954 ¹	4,106	173,135	793,165	128,746	250,004	539,483	1,673,825	114,955
1947.....	3,670	163,606	526,626	131,127	(NA)	393,238	1,048,720	110,699
1939.....	3,213	101,103	165,356	76,044		110,418	361,966	(NA)
1929.....	3,923	109,119	179,628	89,299		131,461	448,062	
1919.....	3,651	(NA)	(NA)	107,080		140,611	360,185	
Seattle:								
1954 ¹	1,447	78,447	354,664	54,931	105,211	220,541	520,928	21,823
1947.....	1,221	54,770	171,221	44,668	(NA)	129,910	265,422	14,777
1939.....	1,137	27,734	42,682	23,581		32,971	83,804	(NA)
1929.....	1,342	34,858	56,609	29,167		41,786	107,252	
1919.....	1,405	(NA)	(NA)	47,474		72,842	141,883	
South Bend:								
1954 ¹	330	43,622	201,674	33,025	61,276	140,295	320,106	7,552
1947.....	259	44,139	144,419	37,158	(NA)	117,504	234,908	13,617
1939.....	194	24,178	36,930	20,819		29,592	71,555	(NA)
1929.....	236	35,032	52,915	31,400		43,691	98,430	
1919.....	277	(NA)	(NA)	19,957		23,206	50,606	
Springfield-Holyoke:								
1954 ¹	896	74,350	302,543	58,281	115,862	215,158	501,938	27,595
1947.....	831	81,598	233,624	67,366	(NA)	177,556	373,118	29,993
1939.....	639	47,525	65,924	38,504		46,090	114,584	(NA)
Syracuse:								
1954.....	568	57,440	242,617	40,630	81,596	157,002	478,545	24,942
1947.....	512	54,563	158,093	43,328	(NA)	116,729	275,257	30,057
1939.....	381	29,740	40,898	25,563		31,592	82,777	(NA)
1929.....	549	41,031	68,360	35,060		52,556	141,615	
1919.....	864	(NA)	(NA)	37,372		43,957	101,577	
Toledo:								
1954 ¹	711	61,123	296,607	46,107	89,475	203,835	534,636	30,020
1947.....	628	70,588	224,189	57,600	(NA)	169,729	393,578	38,578
1939.....	473	37,958	61,161	30,542		43,505	111,138	(NA)
1929.....	605	58,330	97,339	51,646		75,941	206,805	
1919.....	714	(NA)	(NA)	44,713		56,910	125,667	
Trenton:								
1954 ¹	443	38,289	157,238	30,069	58,629	112,465	302,999	14,903
1947.....	402	40,422	113,283	34,094	(NA)	88,389	208,485	17,999
1939.....	318	28,406	36,195	25,287		28,587	72,054	(NA)
1929.....	346	27,091	40,251	23,721		31,200	79,449	
1919.....	497	(NA)	(NA)	30,515		34,874	78,698	
Utica-Rome:								
1954 ¹	503	42,941	168,193	34,003	65,963	122,010	328,206	10,191
1947.....	430	50,975	140,601	44,202	(NA)	113,932	232,985	15,933
1939.....	383	35,885	41,632	32,263		33,651	79,945	(NA)
1929.....	515	43,212	56,829	37,974		43,871	106,355	
1919.....	898	(NA)	(NA)	43,973		45,469	97,553	
Waterbury:								
1954 ¹	391	42,186	179,067	33,970	68,261	129,487	307,565	15,648
1947.....	295	43,388	125,719	36,386	(NA)	96,557	206,291	13,680
1939.....	180	32,609	44,795	28,537		34,872	81,371	(NA)

See footnotes at end of table.

GENERAL SUMMARY

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Table 4B.—GENERAL STATISTICS FOR ALL OPERATING MANUFACTURING ESTABLISHMENTS BY DIVISIONS, STATES, AND STANDARD METROPOLITAN AREAS:
1954 AND EARLIER YEARS—Continued

(For explanation of column captions see Introduction)

Division, State, Standard Metropolitan Area, and Year	Establish- ments, number	All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new (\$1,000)
		Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)		
STANDARD METROPOLITAN AREAS ³ —Continued								
Wheeling-Steubenville:								
1954 ¹	385	49,687	205,685	43,603	80,678	170,052	404,133	55,112
1947.....	343	51,751	147,020	46,484	(NA)	125,513	259,509	34,765
1939.....	304	44,001	60,829	41,228		53,969	100,873	(NA)
1929.....	416	44,887	73,905	41,066		64,076	129,534	
1919.....	743	(NA)	(NA)	36,464		51,440	101,187	
Wichita:								
1954 ¹	439	53,190	237,206	39,093	82,375	169,904	332,703	5,880
1947.....	(NA)	17,140	(NA)	(NA)	(NA)	(NA)	86,487	(NA)
Wilmington:								
1954 ¹	344	37,919	170,700	28,728	55,882	114,450	387,324	24,681
1947.....	(NA)	36,506	(NA)	(NA)	(NA)	(NA)	207,254	(NA)
Worcester:								
1954 ¹	768	50,197	201,435	38,555	75,959	137,485	348,165	15,929
1947.....	702	53,251	153,583	43,525	(NA)	114,474	241,917	17,661
1939.....	600	38,167	55,961	32,033		40,511	99,796	(NA)
York:								
1954 ¹	624	45,275	161,621	36,004	73,779	113,768	282,924	18,262
1947.....	599	42,117	101,061	35,746	(NA)	76,865	189,999	15,140
1939.....	455	29,909	30,224	27,114		24,246	66,435	(NA)
1929.....	586	33,480	37,891	30,331		29,934	88,991	
1919.....	1,023	(NA)	(NA)	27,117		23,680	57,243	
Youngstown:								
1954 ¹	723	105,646	479,748	88,386	166,522	374,054	873,610	49,129
1947.....	554	109,021	331,712	94,606	(NA)	274,351	569,388	33,784
1939.....	429	67,461	110,720	63,010		94,861	200,320	(NA)
1929.....	496	74,600	139,583	66,515		118,047	273,627	
1919.....	764	(NA)	(NA)	63,830		114,650	208,200	

Note: Detailed figures may not equal totals because of independent rounding.

NA Not available.

¹ Withheld because the estimate did not meet publication standards, either on the basis of the associated standard error of estimate or on the basis of consistency review. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volume for this period.

² The 1954 figures include data for establishments engaged in the processing of fluid milk, Industry Group 202, Dairy Products. These establishments were not included in the figures for the Annual Survey years 1949-1953 or earlier Census years. In addition, the 1954 Census and Annual Survey years include data for Logging Camps and Contractors, Industry 2411, which were not included within the scope of the 1947 Census and earlier years. There were also a number of changes in the definition of manufacturing industries during earlier Census years that affect the comparability of the historical series. Among the more important of these were: figures for 1935 and later years exclude data for "Railroad repair shops" and "Manufactured gas" which were included in 1899-1933 figures; the minimum size of establishment included for 1954 and 1947 was one employee, for 1939-1921 manufacturing establishments reporting value of shipments of \$5,000 or more were within scope whereas for 1919 and earlier years the cutoff was \$500. (This change in procedure has not appreciably affected the comparability of the historical data except for the figures on number of establishments.)

³ The employment and payroll figures for operating manufacturing establishments for 1949-1953 are estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard error associated with these estimates are published in the Annual Survey of Manufactures volume for this period.

⁴ This report includes only standard metropolitan areas with 40,000 or more manufacturing employees in 1954 or 1947. For definitions of the areas see footnotes to Table 4A.

⁵ Data for the Fall River and New Bedford Standard Metropolitan Areas were combined in 1947 and 1939. The combined data for the two years are given below.

Year	Number of establishments	All employees		Production workers			Value added by manufacture	Capital expenditures, new
		Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)		
1947.....	588	62,572	142,422	57,379	(NA)	122,624	244,346	12,541
1939.....	451	54,791	52,365	48,127		39,790	72,661	(NA)

GENERAL SUMMARY

Table 5.—GENERAL STATISTICS FOR OPERATING MANUFACTURING ESTABLISHMENTS BY SELECTED COUNTIES: 1954 AND 1947

(For explanation of column captions see Introduction. This table presents, by States, statistics for all counties with 2,500 or more employees in manufacturing establishments in 1954. Statistics for at least five counties are, however, shown for each State. For States having fewer than five counties with 2,500 or more manufacturing employees, the next largest counties were added until a total of five was reached)

State and county	Popula- tion, 1950	1954								1947 ¹	
		Estab- lish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man- hours (1,000)	Wages (\$1,000)				
Alabama:											
Calhoun.....	79,539	106	12,322	36,224	11,297	20,754	31,159	63,365	1,965	10,381	36,702
Chambers.....	39,528	43	8,209	(D)	7,730	(D)	(D)	(D)	(D)	9,165	(D)
Clarke.....	26,548	76	2,783	5,651	2,637	5,122	4,991	12,515	381	1,830	5,710
Colbert.....	39,561	43	5,323	20,456	4,421	8,986	16,105	42,014	2,785	6,972	29,362
Covington.....	40,373	62	4,879	9,708	4,548	8,522	8,379	13,840	650	3,700	10,008
Dallas.....	56,270	71	2,873	5,292	2,636	4,686	4,312	9,550	479	2,723	8,103
Etowah.....	93,892	93	12,760	47,483	11,309	21,052	39,716	101,712	1,325	15,033	68,831
Jefferson.....	558,928	605	57,762	236,624	46,169	89,227	170,682	481,580	31,518	53,359	275,630
Lee.....	45,073	55	3,491	8,490	3,155	5,830	7,254	16,579	716	2,821	11,894
Madison.....	72,903	60	4,397	12,371	3,944	7,644	10,034	21,176	1,636	4,444	18,686
Mobile.....	231,105	226	15,381	56,703	13,158	26,418	45,324	123,245	8,022	17,581	91,312
Montgomery.....	138,965	192	6,281	17,753	4,738	9,371	11,602	33,057	1,489	5,617	24,942
Morgan.....	52,924	64	4,202	14,110	3,263	6,199	9,852	31,106	3,446	4,105	15,074
Talladega.....	63,639	88	8,392	23,736	7,370	13,445	19,250	54,298	1,724	6,442	26,225
Tallapoosa.....	35,074	70	6,915	17,108	6,514	11,828	14,656	25,370	1,847	7,140	35,479
Tuscaloosa.....	94,092	117	8,148	30,099	7,103	14,775	24,880	64,551	7,200	5,988	30,682
Arizona:											
Apache.....	27,767	15	876	(D)	764	(D)	(D)	(D)	(D)	877	(D)
Cochise.....	31,488	26	1,104	4,960	896	2,043	3,931	6,818	750	1,100	(D)
Gila.....	24,158	21	939	4,018	792	1,576	3,174	6,873	218	826	9,404
Maricopa.....	331,770	461	15,717	66,438	11,935	24,773	47,652	115,281	7,456	7,449	39,656
Pima.....	141,216	150	4,548	20,134	3,340	6,705	13,872	37,438	2,167	1,174	6,015
Arkansas:											
Ashley.....	25,660	46	2,603	8,808	2,368	4,755	7,446	19,042	3,382	2,014	12,797
Hot Spring.....	22,181	47	2,981	10,486	2,643	5,479	8,793	27,517	894	1,903	10,186
Jefferson.....	76,075	75	3,026	8,424	2,493	5,029	5,938	14,618	1,060	2,488	8,316
Quachita.....	33,051	81	4,295	15,651	3,700	7,622	12,705	37,101	2,239	3,694	18,792
Pulaski.....	196,685	262	11,626	33,889	9,196	18,132	23,182	67,556	3,997	8,809	39,190
Saline.....	23,816	37	3,112	11,658	2,611	5,218	9,070	27,665	9,629	1,839	7,107
Sebastian.....	64,202	136	6,376	19,472	5,201	10,244	14,345	40,887	2,337	5,418	21,737
Union.....	49,686	78	3,955	14,943	3,288	6,575	11,687	46,257	7,111	3,812	27,468
California:											
Alameda.....	740,315	1,404	68,501	308,958	51,676	101,852	215,461	656,993	27,800	66,322	409,206
Butte.....	64,930	115	3,083	11,984	2,649	5,121	9,932	23,023	858	2,606	15,021
Contra Costa.....	298,984	233	28,014	137,238	21,531	42,428	96,943	350,049	51,829	24,316	155,142
Fresno.....	276,515	391	12,747	50,734	9,755	18,921	34,885	117,186	3,875	7,519	57,268
Humboldt.....	69,241	488	12,733	57,704	11,347	22,065	48,503	107,099	10,491	5,872	36,369
Kern.....	228,309	165	3,181	14,258	2,259	4,473	9,204	33,726	2,207	2,904	27,607
Los Angeles.....	4,151,687	13,861	624,047	2,872,004	458,781	920,712	1,887,031	4,925,646	290,260	352,672	2,021,513
Mendocino.....	40,854	266	6,437	28,547	5,673	11,676	24,098	49,902	4,674	2,463	13,386
Monterey.....	130,498	143	3,122	11,733	2,537	4,381	8,449	20,618	3,691	4,093	20,169
Orange.....	216,224	539	15,755	64,804	11,951	23,437	43,488	115,900	14,904	6,100	31,158
Riverside.....	170,046	207	8,517	35,076	6,695	14,037	26,218	68,661	3,450	4,414	27,626
Sacramento.....	277,140	288	10,907	46,787	8,082	15,735	31,362	112,203	11,441	8,320	52,512
San Bernardino.....	281,642	371	12,641	52,269	10,341	19,840	39,517	136,534	25,680	11,186	75,795
San Diego.....	556,808	595	47,731	221,657	37,310	74,405	156,997	390,218	7,986	20,783	101,548
San Francisco ²	775,357	1,901	56,580	253,101	40,984	77,118	166,048	495,815	26,645	61,539	409,556
San Joaquin.....	200,750	266	11,033	45,205	9,017	17,952	34,329	109,352	4,958	9,861	65,610
San Mateo.....	235,659	413	17,021	81,033	12,257	24,158	52,327	143,261	7,386	9,430	60,228
Santa Clara.....	290,547	567	27,942	116,213	21,304	41,433	81,328	263,587	19,914	18,389	116,810
Santa Cruz.....	66,534	99	2,698	9,154	2,258	4,350	6,844	18,947	3,086	1,590	8,619
Shasta.....	36,413	112	3,249	14,899	2,810	5,461	12,338	25,515	3,018	1,264	8,845
Siskiyou.....	30,733	94	3,766	15,792	3,463	6,329	13,787	25,693	2,663	3,456	21,118
Sonoma.....	103,405	271	4,702	16,740	3,846	7,334	12,625	35,271	3,093	2,900	19,146
Stanislaus.....	127,231	175	6,536	24,190	5,292	10,485	17,888	63,258	2,444	5,278	31,727
Tulare.....	149,264	142	3,017	10,877	2,349	4,314	7,632	24,119	1,013	2,663	22,358
Ventura.....	114,647	87	2,700	12,022	1,598	3,131	5,705	20,556	1,265	1,575	8,354
Colorado:											
Arapahoe.....	52,125	61	2,566	11,062	1,935	3,871	7,299	16,912	694	1,318	4,632
Denver.....	415,786	890	33,458	135,265	24,319	49,674	89,776	236,932	13,803	30,876	162,391
El Paso.....	74,523	123	2,717	9,363	1,998	3,893	6,196	17,989	666	1,642	5,563
Jefferson.....	55,687	60	2,396	11,027	1,708	3,412	7,164	26,665	2,123	876	6,305
Pueblo.....	90,188	89	8,675	36,199	7,596	14,752	30,827	72,109	3,025	8,274	38,536
Connecticut:											
Fairfield.....	504,342	1,479	105,895	448,790	80,611	159,182	306,316	817,769	28,469	112,555	561,112
Hartford.....	539,661	1,168	130,848	560,875	102,218	205,379	403,445	873,906	41,740	113,820	525,706
Litchfield.....	98,872	268	16,962	64,556	13,967	27,305	47,354	106,172	7,429	18,205	85,360

See footnotes at end of table.

Table 5.—GENERAL STATISTICS FOR OPERATING MANUFACTURING ESTABLISHMENTS BY SELECTED COUNTIES: 1954 AND 1947—Continued
(For explanation of column captions see Introduction)

State and county	Popula- tion, 1950	Estab- lish- ments, number	1954							1947 ¹	
			All employees		Production workers			Value added by manu- facture	Capital expendi- tures, new	All employees, number	Value added by manu- facture
			Number	Payroll (\$1,000)	Number	Man- hours (1,000)	Wages (\$1,000)				
Connecticut—Continued											
Middlesex.....	67,332	227	10,088	37,928	8,106	16,475	27,270	68,696	2,468	10,544	42,791
New Haven.....	545,784	1,459	111,938	458,353	89,688	178,890	333,995	779,643	37,611	110,611	530,834
New London.....	144,821	287	22,658	91,788	19,377	39,258	73,632	146,371	9,629	17,900	79,354
Tolland.....	44,709	77	3,123	10,959	2,768	5,696	8,924	19,616	597	4,272	22,671
Windham.....	61,759	125	11,778	39,354	10,138	19,933	30,668	66,188	1,643	12,048	48,883
Delaware (only three counties):											
Kent.....	37,870	69	3,447	8,119	2,879	5,821	6,140	24,014	867	3,082	14,917
New Castle.....	218,879	259	27,278	116,099	21,025	41,042	80,453	251,617	13,008	24,175	121,594
Sussex.....	61,336	192	8,692	27,050	7,083	13,588	18,288	77,450	9,498	7,481	46,562
District of Columbia (no counties).....	802,178	484	20,399	90,083	11,821	22,390	44,743	157,213	6,536	17,815	99,067
Florida:											
Broward.....	83,933	191	2,862	9,409	2,235	4,461	6,499	16,031	1,374	784	3,818
Dade.....	495,084	1,238	24,229	79,470	17,772	34,660	50,009	141,213	9,775	9,271	45,528
Duval.....	304,029	423	17,343	57,854	13,477	27,671	39,941	124,330	10,728	12,771	66,736
Escambia.....	112,706	90	7,955	28,138	6,084	12,402	19,602	68,958	23,453	3,434	21,039
Hillsborough.....	249,894	458	18,509	57,503	14,953	30,056	41,612	114,875	8,432	16,179	59,796
Orange.....	114,950	210	4,125	14,451	2,932	6,098	9,081	34,107	4,385	2,752	10,888
Pinellas.....	159,249	295	4,364	13,247	2,895	7,378	7,572	25,131	1,563	1,954	8,332
Polk.....	123,997	151	8,744	27,449	7,307	15,294	21,039	53,316	17,284	5,076	22,603
Georgia:											
Barrow.....	13,115	27	2,514	4,618	2,319	4,263	3,840	6,097	809	1,841	5,103
Bibb.....	114,079	158	10,094	28,969	8,426	16,787	21,212	65,744	5,073	8,372	34,594
Carroll.....	34,112	73	3,031	6,663	2,780	5,121	5,681	9,594	1,123	2,279	5,416
Chatham.....	151,481	179	13,323	47,275	10,789	22,210	34,108	152,664	8,375	11,042	75,177
Chattooga.....	21,197	20	4,329	11,274	4,056	8,079	9,898	20,606	572	4,752	16,719
Clarke.....	36,550	71	3,476	8,625	3,033	6,324	6,791	15,687	579	2,851	10,211
Cobb.....	61,830	77	18,497	81,314	13,556	27,589	50,866	123,217	4,856	3,517	10,278
Coweta.....	27,786	48	4,150	9,405	3,842	7,080	8,251	17,239	708	3,993	14,232
DeKalb.....	136,395	146	6,907	27,862	5,821	12,144	21,242	70,319	2,897	2,887	9,768
Dougherty.....	43,617	71	3,138	8,910	2,515	5,203	6,188	14,469	3,509	2,053	8,722
Floyd.....	62,899	94	10,353	30,021	8,986	17,644	23,751	46,517	6,103	10,636	47,713
Fulton.....	473,572	865	53,096	178,497	41,706	82,057	120,884	358,472	16,931	42,626	217,402
Glynn.....	29,046	65	3,766	12,290	3,098	6,447	9,237	44,628	2,976	2,187	25,358
Hall.....	40,113	76	5,807	15,405	5,361	10,955	13,518	27,619	1,355	4,923	22,872
Haralson.....	14,663	18	3,092	9,543	2,887	5,369	7,038	14,928	449	2,367	7,548
Miscogee.....	118,028	124	17,046	42,068	15,032	28,774	33,195	67,202	3,474	18,889	86,953
Newton.....	20,185	29	3,274	6,946	3,050	5,640	6,238	9,394	659	3,225	(D)
Polk.....	30,976	38	3,696	9,441	3,351	6,104	7,907	19,429	5,211	5,414	16,806
Richmond.....	108,876	126	8,602	24,507	7,152	14,413	17,647	46,453	2,502	8,939	37,295
Spalding.....	31,045	48	7,082	15,884	6,602	12,048	13,865	20,972	547	6,831	24,447
Stephens.....	16,647	38	3,407	8,968	3,065	6,295	7,237	15,867	5,344	3,314	10,120
Troup.....	49,841	69	9,716	22,998	9,147	16,356	20,293	32,802	976	9,927	28,760
Upson.....	25,078	28	5,082	12,964	4,772	8,864	11,742	24,339	3,054	5,897	(D)
Walker.....	38,198	45	5,693	15,122	5,172	10,615	12,724	26,425	1,338	5,009	20,253
Whitfield.....	34,432	153	8,809	19,815	8,077	14,790	16,242	38,126	2,415	5,907	21,801
Idaho:											
Ada.....	70,649	116	1,976	7,303	1,444	2,786	4,782	13,608	730	1,480	7,792
Canyon.....	53,597	57	2,015	6,452	1,654	3,327	4,799	15,721	1,936	1,833	13,692
Kootenai.....	24,947	66	1,759	6,965	1,593	2,987	6,080	12,443	1,369	885	5,526
Nez Perce.....	22,658	39	2,924	(D)	2,610	(D)	(D)	(D)	(D)	2,105	11,138
Shoshone.....	22,806	37	1,472	(D)	1,292	(D)	(D)	(D)	(D)	1,101	(D)
Illinois:											
Adams.....	64,690	112	7,092	24,426	5,500	10,953	17,505	69,749	2,708	9,860	43,193
Coles.....	40,328	54	2,991	8,898	2,606	4,805	7,128	18,854	490	3,375	12,947
Cook.....	4,508,792	12,020	766,568	3,445,448	581,674	1,152,794	2,314,677	6,296,850	288,001	788,872	4,547,449
DeKalb.....	40,781	87	6,014	23,714	4,850	9,525	16,935	43,956	2,663	5,714	28,084
DuPage.....	154,599	226	5,554	22,236	4,360	8,265	15,094	46,527	3,471	2,863	15,554
Henry.....	46,492	56	3,897	13,453	3,112	5,277	9,760	21,801	1,455	4,339	18,356
Kane.....	150,388	369	27,614	117,542	20,498	40,841	76,016	204,487	8,943	26,552	138,002
Kankakee.....	73,524	102	8,883	37,251	6,570	12,917	24,603	90,600	3,765	7,417	37,494
Knox.....	54,336	64	5,262	21,919	4,201	8,057	16,540	40,844	1,690	4,376	21,943
Lake.....	179,097	281	23,857	107,025	17,383	34,212	69,645	212,407	10,852	20,482	139,396
LaSalle.....	100,610	146	17,585	74,361	15,078	30,990	61,142	163,114	8,051	16,839	98,898
McHenry.....	50,656	134	6,797	24,822	5,794	11,495	19,894	55,754	2,116	4,650	22,248
McLean.....	76,577	85	4,534	16,603	3,699	7,457	12,492	39,925	5,833	4,520	26,335
Macon.....	98,853	140	12,184	52,880	8,898	17,887	33,894	98,784	18,070	10,310	82,565

See footnotes at end of table.

Table 5.—GENERAL STATISTICS FOR OPERATING MANUFACTURING ESTABLISHMENTS BY SELECTED COUNTIES: 1954 AND 1947—Continued
(For explanation of column captions see Introduction)

State and county	Popula- tion, 1950	1954								1947 ¹	
		Estab- lish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man- hours (1,000)	Wages (\$1,000)				
Illinois—Continued											
Madison.....	182,307	199	32,825	150,016	24,905	49,579	105,653	332,077	45,693	34,122	199,632
Ogle.....	33,429	57	3,218	13,330	2,719	5,295	10,393	20,208	1,839	3,097	16,726
Peoria.....	174,347	242	14,995	68,552	11,443	23,022	47,977	155,545	7,969	17,476	158,056
Rock Island.....	133,558	198	22,878	102,571	17,356	33,473	72,317	176,773	14,326	28,050	128,515
St. Clair.....	205,995	251	22,861	96,138	17,700	34,817	68,978	170,059	23,478	25,158	123,885
Sangamon.....	131,484	155	12,816	53,256	9,579	19,182	36,964	111,208	4,022	12,047	54,976
Stephenson.....	41,595	69	5,385	20,160	3,900	8,005	13,116	37,615	2,900	4,686	18,846
Tazewell.....	76,165	71	22,783	98,795	18,768	36,962	76,662	206,951	12,965	25,035	122,614
Vermilion.....	87,079	125	9,640	37,123	7,857	15,449	27,423	73,468	5,074	7,495	33,377
Whiteside.....	49,336	68	7,001	29,814	5,562	11,291	22,847	60,840	2,724	6,187	37,573
Will.....	134,336	199	19,938	87,709	15,209	30,497	63,069	167,838	15,201	14,382	101,448
Williamson.....	48,621	46	3,332	9,520	2,777	5,186	7,322	22,648	683	1,158	4,876
Winnebago.....	152,385	439	38,194	177,568	29,318	61,937	124,101	312,770	16,255	35,054	188,535
Indiana:											
Allen.....	183,722	308	33,012	149,898	23,668	47,353	97,439	282,154	11,785	38,953	224,305
Bartholomew.....	36,108	84	7,710	31,014	6,125	12,239	22,573	68,110	2,868	6,382	32,374
Cass.....	38,793	55	3,190	11,113	2,535	4,773	7,823	21,186	432	3,397	15,202
Clark.....	48,330	46	9,866	45,321	7,807	16,600	34,933	92,536	4,865	3,974	53,969
Dearborn.....	25,141	40	4,288	15,226	3,607	5,885	11,638	52,973	1,252	5,228	71,661
DeKalb.....	26,023	69	2,733	10,437	2,140	4,082	6,985	17,199	1,011	2,490	11,147
Delaware.....	90,252	164	17,453	79,788	14,174	28,239	59,435	149,534	21,128	17,985	106,008
Dubois.....	23,785	83	3,262	9,928	2,835	5,878	7,864	15,709	489	3,069	13,180
Elkhart.....	84,512	317	17,153	73,652	13,636	27,057	51,597	153,876	5,708	15,478	83,167
Fayette.....	23,391	24	5,830	23,373	4,869	8,879	18,195	35,678	2,644	6,521	39,594
Floyd.....	43,955	69	4,256	13,784	3,418	6,620	9,527	20,096	1,424	3,911	15,132
Grant.....	62,156	125	10,979	42,040	9,038	17,877	31,389	70,316	6,406	10,688	54,615
Henry.....	45,505	56	4,639	20,668	3,936	7,972	16,917	32,558	1,082	5,769	25,233
Howard.....	54,498	87	13,498	57,283	11,404	22,750	45,111	92,110	5,203	11,626	51,022
Huntington.....	31,400	68	3,729	12,956	2,894	5,622	8,666	22,373	809	3,921	17,671
Jackson.....	28,237	47	3,168	9,839	2,725	5,491	7,811	18,699	726	3,283	13,584
Jay.....	23,157	39	3,193	11,644	2,697	5,294	9,054	17,600	1,109	3,343	14,346
Kosciusko.....	32,002	108	2,968	11,175	2,398	4,828	8,196	22,878	1,084	2,489	11,872
Lake.....	368,152	361	99,288	476,433	79,518	152,436	359,062	965,314	100,928	92,890	587,378
La Porte.....	76,808	157	15,921	66,351	11,899	23,954	46,030	111,083	4,536	13,663	70,778
Lawrence.....	34,346	46	4,939	18,884	4,253	8,199	15,076	28,780	855	2,956	12,314
Madison.....	103,911	150	25,725	114,815	21,408	43,739	90,739	206,088	15,584	26,048	125,395
Marion.....	551,777	1,102	102,233	464,243	74,681	150,971	302,764	844,783	48,209	92,259	483,375
Monroe.....	50,080	63	6,309	21,579	5,710	11,427	18,330	51,700	1,328	3,386	14,150
Montgomery.....	29,122	39	2,836	11,468	2,324	4,882	8,940	19,085	1,023	2,569	10,923
Noble.....	25,075	66	2,868	9,193	2,361	4,432	6,933	13,569	1,019	2,324	9,167
Perry.....	17,369	29	3,439	10,336	3,119	5,639	8,731	19,266	423	3,158	11,763
Randolph.....	27,141	53	3,695	13,054	3,153	5,966	10,360	21,974	2,139	2,976	12,294
St. Joseph.....	205,058	330	43,622	201,674	33,025	61,276	140,295	320,106	7,552	44,139	234,908
Shelby.....	28,026	60	2,721	8,518	2,284	4,380	6,301	11,491	765	2,816	11,346
Tippecanoe.....	74,473	68	8,293	35,800	6,335	12,545	23,983	67,303	8,067	6,980	37,936
Vanderburgh.....	160,422	219	32,562	137,178	24,956	48,234	94,373	238,222	7,624	29,053	138,922
Vigo.....	105,160	159	10,419	40,677	8,031	15,951	28,508	75,688	6,250	9,630	62,213
Wabash.....	29,047	66	4,454	17,024	3,691	7,370	12,659	31,531	1,252	4,351	17,517
Wayne.....	68,566	125	12,697	53,855	9,609	19,929	37,636	91,025	3,814	13,599	72,065
Iowa:											
Black Hawk.....	100,448	143	16,652	72,904	12,631	24,955	51,787	110,908	8,275	17,859	64,547
Cerro Gordo.....	46,053	60	3,778	14,873	2,939	6,168	10,791	28,586	1,707	3,519	18,475
Clinton.....	49,664	64	5,605	23,047	4,403	8,796	16,020	60,385	4,595	4,753	31,059
Des Moines.....	42,056	75	7,117	26,236	5,181	10,294	17,816	73,186	1,541	3,705	19,254
Dubuque.....	71,337	113	10,322	42,446	8,316	16,847	32,405	73,825	1,517	9,225	37,585
Jasper.....	32,305	34	4,374	19,291	3,132	6,752	12,369	39,936	5,676	4,287	20,569
Lee.....	43,102	63	5,973	26,215	4,798	9,311	17,024	62,973	2,637	6,792	39,610
Linn.....	104,274	196	18,457	75,434	13,399	28,066	50,117	150,759	5,979	14,313	81,333
Marshall.....	35,611	54	3,401	14,622	2,575	5,434	9,787	32,921	2,577	3,175	16,641
Muscatine.....	32,148	67	3,586	11,650	2,770	5,740	8,009	19,433	1,001	3,846	15,499
Polk.....	226,010	385	22,482	94,592	16,047	31,801	61,644	186,245	14,368	16,090	86,907
Scott.....	100,698	166	12,406	51,817	9,394	18,929	36,461	105,633	4,925	9,272	43,148
Wapello.....	47,397	51	6,431	26,944	4,910	9,888	19,912	33,893	1,334	6,185	(D)
Webster.....	44,241	61	4,032	16,519	3,214	6,753	12,588	40,271	1,489	3,210	19,857
Woodbury.....	103,917	146	9,401	36,651	7,250	14,843	25,761	46,794	2,898	9,889	44,756
Kansas:											
Johnson.....	62,783	49	5,151	21,983	4,255	8,094	17,361	26,122	2,296	324	1,225
Montgomery.....	46,487	76	5,262	20,848	4,368	8,656	16,519	37,186	785	3,899	23,460
Reno.....	54,058	89	2,720	10,540	2,117	4,461	7,318	22,646	1,468	2,585	17,890

See footnotes at end of table.

Table 5.—GENERAL STATISTICS FOR OPERATING MANUFACTURING ESTABLISHMENTS BY SELECTED COUNTIES: 1954 AND 1947—Continued
(For explanation of column captions see Introduction)

State and county	Popula- tion, 1950	1954								1947 ¹	
		Estab- lish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man- hours (1,000)	Wages (\$1,000)				
Kansas—Continued											
Sedgwick.....	222,290	439	53,190	237,206	39,093	82,375	169,904	332,703	5,880	17,140	86,487
Shawnee.....	105,418	138	6,010	23,711	4,243	8,291	15,503	56,929	3,138	5,974	29,317
Wyandotte.....	165,318	215	31,375	144,439	23,564	48,472	103,954	353,866	8,435	21,176	136,532
Kentucky:											
Boyd.....	49,949	52	4,993	23,527	4,142	8,112	18,425	48,327	13,271	5,021	31,329
Campbell.....	76,196	55	4,791	19,126	3,932	8,096	14,175	42,807	4,567	5,551	23,345
Daviess.....	57,241	73	7,665	25,561	6,550	12,514	19,955	44,790	3,093	5,821	42,092
Fayette.....	100,746	104	4,317	13,156	3,282	6,524	8,389	26,472	2,151	3,568	12,855
Graves.....	31,364	32	2,756	8,144	2,447	4,801	6,458	13,733	404	2,891	11,107
Jefferson.....	484,615	699	70,530	295,087	55,277	112,593	208,502	732,398	84,668	65,968	420,334
Kenton.....	104,254	99	4,387	19,416	3,142	6,366	11,744	39,548	1,830	3,669	24,248
McCracken.....	49,137	60	5,030	18,490	3,800	7,086	12,189	35,323	772	3,455	11,736
Warren.....	42,758	42	2,633	7,024	2,253	3,877	5,454	18,146	542	2,140	7,822
Louisiana:											
Caddo.....	176,547	187	7,335	26,517	5,496	11,303	18,138	59,531	3,274	6,507	31,081
Calcasieu.....	89,635	101	7,468	35,901	5,566	11,365	25,096	106,851	18,980	5,597	53,195
East Baton Rouge.....	158,236	142	18,882	98,399	12,409	24,836	59,260	254,864	36,875	16,818	132,820
Jefferson.....	103,873	124	12,192	50,949	9,366	19,574	35,510	96,200	49,162	8,473	53,130
Morehouse.....	32,038	24	3,123	(D)	2,598	(D)	(D)	(D)	(D)	2,765	(D)
Orleans.....	570,445	712	36,437	123,450	28,186	54,455	84,632	223,290	11,086	35,302	163,585
Ouachita.....	74,713	131	5,402	19,951	4,488	9,216	14,817	51,540	3,738	3,720	25,646
Rapides.....	90,648	101	3,523	9,681	2,839	6,231	6,445	16,994	819	3,591	13,643
St. Bernard.....	11,087	20	4,683	19,218	3,871	7,729	15,094	55,383	4,340	1,875	8,734
Washington.....	38,371	40	3,898	(D)	3,434	(D)	(D)	(D)	(D)	3,522	(D)
Webster.....	35,704	51	6,314	22,528	5,440	11,515	17,866	50,038	7,532	3,441	(D)
Maine:											
Androscoggin.....	83,594	247	15,240	43,194	13,740	25,348	35,697	71,728	2,602	16,717	76,536
Aroostook.....	96,039	203	3,028	8,831	2,594	5,423	7,382	21,479	3,097	1,897	11,730
Cumberland.....	169,201	358	16,313	54,570	13,761	27,718	41,454	99,252	3,974	13,943	64,171
Franklin.....	20,682	159	3,438	10,004	3,122	6,376	8,644	15,037	1,471	3,878	14,329
Kennebec.....	83,881	176	11,136	33,533	9,833	19,421	27,646	58,676	6,468	11,129	51,566
Knox.....	28,121	112	2,688	7,560	2,386	4,442	6,098	14,175	808	2,196	7,745
Oxford.....	44,221	269	7,524	25,399	6,526	13,907	20,210	38,940	3,602	7,219	26,481
Penobscot.....	108,198	373	12,040	39,640	10,495	22,140	32,065	72,119	29,642	9,440	47,514
Sagadahoc.....	20,911	39	3,947	15,271	3,427	6,398	12,457	31,881	957	4,157	8,792
Somerset.....	39,785	229	6,037	16,417	5,550	11,044	14,232	24,911	1,317	4,513	15,201
Washington.....	35,187	179	3,036	8,172	2,706	5,166	6,708	18,138	1,923	3,103	15,788
York.....	93,541	225	13,007	41,258	11,100	21,448	32,200	66,227	1,276	16,661	72,811
Maryland:											
Allegany.....	89,556	89	8,640	34,217	6,535	13,260	23,848	68,891	5,145	16,921	86,262
Anne Arundel.....	117,392	83	5,615	24,826	3,096	6,364	10,580	33,195	2,820	1,339	6,412
Baltimore City ³	949,708	1,629	117,583	459,349	89,603	177,511	307,542	895,669	52,036	121,162	668,760
Baltimore.....	270,273	197	65,489	296,634	50,281	98,406	208,182	618,604	20,317	47,663	225,195
Carroll.....	44,907	80	4,946	14,324	4,212	8,037	10,461	24,837	1,078	4,144	17,601
Cecil.....	33,356	64	3,054	9,331	2,581	5,067	7,052	15,088	479	1,323	5,463
Dorchester.....	27,815	87	3,965	7,461	3,693	5,977	6,129	11,670	947	3,512	13,352
Frederick.....	62,287	82	3,976	10,599	3,475	6,810	8,513	17,630	916	3,962	12,130
Montgomery.....	164,401	119	3,146	12,570	2,169	4,406	7,037	21,224	1,546	1,531	6,581
Prince Georges.....	194,182	129	4,254	18,067	2,829	5,568	9,973	27,248	1,453	1,499	6,260
Washington.....	78,886	131	14,637	57,632	11,695	23,160	42,417	78,279	1,943	10,469	46,320
Wicomico.....	39,641	99	5,508	13,751	4,748	9,024	10,348	24,313	1,274	4,506	13,129
Massachusetts:											
Berkshire.....	132,966	219	25,843	103,230	19,403	39,040	69,961	197,757	13,258	28,223	136,878
Bristol.....	381,569	1,073	78,378	240,964	68,127	129,498	185,013	378,243	17,062	89,382	367,540
Essex.....	522,384	1,383	87,651	329,066	68,045	130,029	225,824	562,972	19,781	104,376	468,162
Franklin.....	52,747	131	7,034	26,503	5,730	11,541	19,237	47,634	2,316	7,965	37,247
Hampden.....	367,971	840	68,406	279,987	53,534	106,619	198,484	472,215	26,415	74,167	346,414
Hampshire.....	87,594	183	9,706	35,610	8,031	16,141	26,582	58,903	3,286	9,849	42,749
Middlesex.....	1,064,569	2,049	133,754	512,618	104,605	209,944	352,367	922,611	33,105	128,648	634,799
Norfolk.....	392,308	583	36,040	143,671	27,614	55,946	100,180	248,205	12,678	29,249	139,294
Plymouth.....	189,468	497	21,617	68,981	18,031	33,789	50,669	115,734	3,105	21,574	88,738
Suffolk.....	896,615	2,688	101,706	384,903	76,665	144,854	249,259	674,748	19,402	106,824	558,223
Worcester.....	546,401	1,470	106,030	399,591	85,588	168,594	289,468	672,125	29,892	117,248	534,227
Michigan:											
Allegan.....	47,493	95	3,354	13,173	2,758	5,685	9,952	25,821	2,130	2,840	16,760
Alpena.....	22,189	40	2,723	12,022	2,189	4,831	9,173	25,691	4,564	2,057	17,259
Barry.....	26,183	37	2,614	10,443	2,032	4,318	7,619	17,976	856	2,301	13,101
Bay.....	88,461	157	10,691	46,787	8,671	17,745	35,063	68,070	9,499	10,841	50,767

See footnotes at end of table.

GENERAL SUMMARY

Table 5.—GENERAL STATISTICS FOR OPERATING MANUFACTURING ESTABLISHMENTS BY SELECTED COUNTIES: 1954 AND 1947—Continued

(For explanation of column captions see Introduction)

State and county	Popula- tion, 1950	1954								1947 ¹	
		Estab- lish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man- hours (1,000)	Wages (\$1,000)				
Michigan—Continued											
Berrien.....	115,702	293	20,831	92,240	16,086	31,922	64,013	178,497	9,176	18,344	89,819
Branch.....	30,202	63	2,514	9,609	2,107	4,184	7,494	15,947	961	2,660	12,268
Calhoun.....	120,813	197	21,102	94,073	16,236	31,903	67,824	239,018	7,641	19,758	126,630
Genesee.....	270,963	286	75,410	387,681	63,979	137,996	316,466	713,846	149,069	54,774	323,205
Gratiot.....	33,429	44	3,001	12,201	2,404	4,968	8,549	23,878	2,527	2,829	14,285
Ingham.....	172,941	209	29,394	150,248	24,251	56,037	117,558	318,340	15,350	25,852	155,054
Ionia.....	38,158	69	3,586	13,011	2,992	5,866	9,869	22,607	1,307	3,439	17,159
Jackson.....	107,925	265	15,575	72,444	12,478	24,547	56,746	141,473	5,836	16,261	87,913
Kalamazoo.....	126,707	267	23,948	108,035	18,502	38,729	74,800	221,408	18,369	20,867	150,412
Kent.....	288,292	776	52,337	244,270	41,221	86,735	177,077	454,194	27,710	49,241	255,255
Lenawee.....	64,629	163	11,320	52,570	9,447	19,496	42,063	96,903	3,488	10,426	50,005
Macomb.....	184,961	746	35,120	181,898	28,761	59,182	137,472	281,192	38,496	14,843	106,404
Marquette.....	47,654	139	2,588	7,434	2,195	4,078	5,865	13,975	788	2,611	10,318
Menominee.....	25,299	107	3,002	10,572	2,458	4,930	8,021	18,936	1,404	2,847	12,376
Midland.....	35,662	37	11,023	(D)	7,162	(D)	(D)	(D)	(D)	7,963	(D)
Monroe.....	75,666	100	8,655	44,427	7,232	15,181	34,734	67,984	3,487	6,820	44,630
Montcalm.....	31,013	54	3,485	14,443	2,615	5,228	9,912	27,108	943	3,612	22,041
Muskegon.....	125,545	197	25,272	116,326	20,345	39,485	86,815	186,973	17,985	30,187	142,616
Oakland.....	396,001	1,051	57,624	300,460	47,184	97,954	225,631	531,955	64,350	44,566	261,462
Ottawa.....	73,751	227	11,475	49,460	9,647	19,599	35,256	92,137	5,060	10,093	55,873
Saginaw.....	153,515	228	26,625	124,462	21,883	45,203	95,799	236,980	31,437	22,141	115,187
St. Claire.....	91,599	164	9,547	42,376	7,353	14,678	29,896	72,929	3,624	10,457	54,313
St. Joseph.....	35,071	121	6,483	24,471	5,352	10,975	19,168	54,110	2,760	5,914	33,028
Shiawassee.....	45,967	75	3,621	14,202	2,946	6,020	10,658	20,906	1,422	4,695	20,209
Van Buren.....	39,184	93	3,302	11,718	2,895	5,386	8,900	23,530	1,629	2,811	12,206
Washtenaw.....	134,606	194	21,163	99,821	17,202	33,970	75,033	172,533	24,653	23,065	120,298
Wayne.....	2,435,235	4,362	445,478	2,290,990	358,419	724,452	1,710,181	3,900,018	377,971	497,832	2,544,794
Minnesota:											
Anoka.....	35,579	44	5,060	24,080	4,508	9,746	20,994	35,198	1,115	2,148	14,022
Carlton.....	24,584	33	3,751	14,979	3,233	6,548	11,673	31,569	2,376	3,117	16,719
Dakota.....	49,019	51	7,954	35,666	6,163	13,557	27,054	37,592	2,365	7,826	32,310
Freeborn.....	34,517	58	3,127	11,504	2,317	4,806	8,196	17,588	905	2,840	17,026
Hennepin.....	676,579	1,511	71,267	300,033	50,780	100,721	186,854	536,293	19,721	66,365	385,211
Mower.....	42,277	28	5,558	(D)	4,140	(D)	(D)	(D)	(D)	5,135	(D)
Ramsey.....	355,332	640	49,922	222,593	34,895	69,407	139,657	472,239	24,102	44,096	281,919
St. Louis.....	206,062	382	11,189	43,598	8,975	17,014	31,911	66,459	5,390	11,543	46,228
Stearns.....	70,681	108	2,729	9,181	2,197	4,772	6,979	19,258	993	1,785	8,698
Washington.....	34,544	44	3,580	16,513	2,825	5,515	11,810	35,394	1,815	2,831	11,177
Winona.....	39,841	96	3,297	11,552	2,636	5,376	8,017	20,813	1,719	3,239	16,683
Mississippi:											
Adams.....	32,256	47	3,997	14,947	3,457	7,016	12,272	49,922	1,782	2,819	9,106
Forrest.....	45,055	68	3,071	8,214	2,554	4,965	6,066	20,309	766	2,826	16,489
Harrison.....	84,073	116	3,525	8,518	3,085	5,297	5,788	15,241	1,714	2,871	7,778
Hinds.....	142,164	185	7,421	21,557	5,870	11,884	14,579	46,940	3,761	6,694	30,373
Jackson.....	31,401	47	7,528	30,409	7,113	12,660	27,811	52,419	3,934	6,256	(D)
Jones.....	57,235	79	6,078	18,520	5,340	10,718	15,058	38,534	1,456	6,528	34,866
Lauderdale.....	64,171	112	4,245	10,896	3,527	9,414	7,961	19,215	1,133	4,321	18,235
Lee.....	38,237	41	3,133	6,906	2,774	5,264	5,344	15,909	781	1,833	7,396
Lowndes.....	37,852	52	2,904	6,880	2,568	5,158	5,334	12,217	2,200	2,623	8,984
Warren.....	39,616	47	2,616	8,088	2,062	4,466	5,637	11,792	3,097	2,415	9,683
Missouri:											
Audrain.....	23,829	33	3,439	12,759	2,688	5,221	8,750	22,335	1,099	3,919	14,129
Buchanan.....	96,826	124	11,207	42,574	8,396	16,694	29,403	64,441	3,052	11,125	52,734
Cape Girardeau.....	38,397	70	3,197	8,292	2,783	5,054	6,793	19,050	621	3,705	11,868
Clay.....	45,221	103	10,466	46,020	7,514	14,938	29,360	103,656	3,416	7,240	52,151
Franklin.....	36,046	69	4,551	11,567	4,156	7,439	9,869	23,563	327	4,038	10,238
Greene.....	104,823	180	6,682	20,697	5,195	10,686	14,563	48,283	6,229	5,295	18,506
Jackson.....	541,035	1,146	68,137	285,320	49,567	96,925	185,350	555,946	31,672	49,946	279,899
Jasper.....	79,106	146	7,525	25,383	6,223	12,454	19,327	44,468	3,240	5,500	25,216
Jefferson.....	38,007	33	3,759	19,637	3,103	6,765	16,218	35,231	2,686	4,438	30,560
Marion.....	29,765	41	2,579	7,165	2,146	3,861	5,510	12,979	238	2,976	9,566
St. Louis.....	406,349	419	35,678	160,712	25,588	51,348	104,889	326,687	11,012	10,347	58,596
St. Louis City ³	856,796	2,230	158,092	644,120	121,575	234,639	439,748	1,207,787	50,642	172,592	909,096
Montana:											
Cascade.....	53,027	56	2,559	9,914	1,924	3,306	6,778	27,382	2,747	2,736	15,792
Deer Lodge.....	16,553	14	2,224	(D)	1,661	(D)	(D)	(D)	(D)	1,922	(D)
Lincoln.....	8,693	72	1,417	5,873	1,242	2,395	4,894	11,507	2,202	733	4,086
Missoula.....	35,493	79	2,273	9,277	1,916	3,755	7,395	15,774	1,438	1,800	8,416
Yellowstone.....	55,875	84	2,410	10,359	1,753	3,563	7,076	22,058	6,628	1,822	14,043

See footnotes at end of table.

Table 5.—GENERAL STATISTICS FOR OPERATING MANUFACTURING ESTABLISHMENTS BY SELECTED COUNTIES: 1954 AND 1947—Continued

(For explanation of column captions see Introduction)

State and county	Popula- tion, 1950	1954								1947 ¹	
		Estab- lish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man- hours (1,000)	Wages (\$1,000)				
Nebraska:											
Dodge.....	26,265	44	1,586	6,287	1,227	2,485	4,657	8,819	583	655	3,420
Douglas.....	281,020	470	28,150	114,689	21,270	44,259	79,810	202,260	11,421	25,887	159,758
Hall.....	32,186	48	2,274	8,251	1,547	3,224	5,127	10,793	745	810	4,915
Lancaster.....	119,742	141	8,681	32,342	6,727	13,178	23,578	63,898	2,935	7,522	34,367
Saunders.....	16,923	11	1,398	(D)	1,096	(D)	(D)	(D)	(D)	203	993
Nevada:											
Clark.....	48,289	59	3,109	13,835	2,322	4,805	9,837	39,169	3,775	915	6,616
Douglas.....	2,029	5	55	234	36	52	102	637	55	38	(D)
Elko.....	11,654	8	52	142	33	56	92	212	(D)	(D)	(D)
Washoe.....	50,205	75	1,666	7,503	1,327	2,724	5,438	13,974	693	1,202	6,015
White Pine.....	9,424	4	530	(D)	464	(D)	(D)	(D)	(D)	354	(D)
New Hampshire:											
Belknap.....	26,632	93	3,844	12,352	3,053	6,052	8,795	21,367	815	4,627	19,186
Cheshire.....	38,811	152	6,006	20,603	5,179	10,443	15,823	34,971	1,328	5,566	24,001
Cocos.....	35,932	111	5,297	18,515	4,559	9,331	15,274	33,288	3,310	3,939	(D)
Grafton.....	47,923	150	3,901	11,788	3,452	7,184	9,847	17,797	655	4,093	15,932
Hillsborough.....	156,987	438	31,616	100,005	27,149	51,724	77,223	166,355	6,272	31,845	132,176
Merrimack.....	63,022	190	5,648	17,997	4,907	9,819	14,712	26,660	1,177	6,354	26,135
Rockingham.....	70,059	165	5,852	17,448	5,114	9,726	13,546	28,229	2,406	4,235	13,119
Strafford.....	51,567	136	10,505	33,003	8,923	17,139	25,243	57,512	1,570	9,481	37,603
Sullivan.....	26,441	81	3,581	11,506	2,927	5,569	8,610	19,536	803	3,933	17,293
New Jersey:											
Atlantic.....	132,399	252	6,202	18,428	5,219	9,638	13,875	28,384	1,566	6,057	23,212
Bergen.....	539,139	1,499	82,818	367,934	60,495	121,098	235,112	654,901	20,224	52,508	325,495
Burlington.....	135,910	244	13,353	55,847	10,998	22,357	42,567	99,419	14,329	12,516	58,388
Camden.....	300,743	507	46,283	203,115	36,845	72,070	142,038	368,045	13,922	43,971	227,648
Cumberland.....	88,597	257	18,350	61,414	15,705	29,948	47,284	109,242	9,257	16,485	71,027
Essex.....	905,949	2,817	143,101	611,593	105,778	208,076	390,195	1,067,606	51,334	142,892	798,016
Gloucester.....	91,727	164	9,484	41,814	7,118	13,920	28,352	71,805	21,508	7,152	48,052
Hudson.....	647,437	2,363	133,063	569,410	100,902	195,838	380,317	1,119,182	41,723	144,039	889,898
Hunterdon.....	42,736	86	3,540	13,187	3,054	6,238	10,521	24,027	2,755	4,123	24,056
Mercer.....	229,781	443	38,289	157,238	30,069	58,629	112,465	302,999	14,903	40,422	208,485
Middlesex.....	264,872	651	65,529	284,183	51,462	102,226	199,495	608,462	43,165	59,614	334,239
Monmouth.....	225,327	406	14,014	46,647	11,441	18,922	33,947	96,556	3,435	11,587	56,589
Morris.....	164,371	352	17,650	72,290	13,720	28,003	49,483	160,471	7,860	12,837	82,167
Passaic.....	337,093	1,457	72,310	295,596	58,531	114,066	216,379	507,788	19,500	78,521	376,137
Salem.....	49,508	49	10,641	54,600	7,703	14,840	33,996	135,707	11,672	12,331	85,660
Somerset.....	99,052	166	15,669	69,185	11,439	22,006	44,489	127,265	8,024	14,217	83,366
Union.....	398,138	1,086	81,174	370,880	61,639	123,360	255,582	736,896	68,957	67,033	437,098
Warren.....	54,374	118	10,051	38,144	8,004	16,113	28,003	71,059	2,474	9,130	41,451
New Mexico:											
Bernalillo.....	145,673	180	9,281	43,525	4,822	9,442	18,656	85,740	2,957	1,954	8,743
Chaves.....	40,605	27	512	1,899	346	729	1,008	3,735	303	459	2,567
Eddy.....	40,640	28	602	2,401	464	964	1,750	6,040	970	368	2,503
Grant.....	21,649	12	468	1,836	394	833	1,542	5,051	104	371	(D)
Santa Fe.....	38,153	37	450	1,262	332	637	803	1,595	131	457	1,787
New York:											
Albany.....	239,386	336	22,500	91,788	17,143	34,131	62,339	159,022	7,101	22,273	116,711
Allegany.....	43,784	80	3,226	13,016	2,460	4,864	9,028	25,909	849	3,032	14,334
Bronx (Bronx Borough) ⁴	1,451,277	2,078	52,472	184,843	42,990	81,879	132,417	323,030	8,256	41,323	194,500
Broome.....	184,698	289	40,502	159,561	32,523	60,697	112,853	268,720	15,213	35,769	159,879
Cattaraugus.....	77,901	139	8,716	34,225	6,762	13,544	23,782	56,382	2,244	8,681	45,334
Cayuga.....	70,136	134	8,197	32,354	6,431	12,644	23,294	53,350	1,750	10,088	48,081
Chautauqua.....	135,189	326	22,743	92,010	18,884	38,807	72,491	162,706	5,682	22,560	109,776
Chemung.....	86,827	109	16,203	65,634	13,262	26,891	50,715	132,627	6,396	16,358	74,571
Chenango.....	39,138	96	4,045	14,840	3,048	6,433	9,356	38,014	1,003	3,052	20,525
Columbia.....	43,182	96	4,168	14,507	3,370	7,000	10,318	29,180	1,226	4,647	23,302
Cortland.....	37,158	86	5,095	16,648	4,237	8,667	12,485	33,473	711	5,279	27,357
Delaware.....	44,420	88	5,762	22,458	4,221	8,615	15,038	36,025	1,218	3,158	14,247
Dutchess.....	136,781	232	20,191	93,723	15,047	31,260	61,990	153,288	6,942	14,692	70,587
Erie.....	899,238	1,529	148,247	679,214	114,180	228,112	484,674	1,213,897	109,034	139,985	752,621
Fulton.....	51,021	273	7,754	21,939	6,916	12,652	17,606	34,230	1,042	10,840	37,506
Genesee.....	47,584	80	6,760	27,135	5,684	11,925	21,587	56,428	3,854	6,169	33,795
Herkimer.....	61,407	128	12,539	44,635	10,304	19,963	34,141	92,457	2,365	15,232	63,154
Jefferson.....	85,521	145	6,285	23,379	5,131	10,664	17,751	44,415	2,682	7,199	31,782
Kings (Brooklyn Borough) ⁴	2,738,175	7,851	235,634	857,477	196,205	369,517	623,083	1,530,186	45,032	229,632	1,178,730
Livingston.....	40,257	60	2,926	9,642	2,321	4,588	6,877	18,305	668	3,262	12,103
Monroe.....	487,632	979	111,385	508,033	83,246	163,733	338,183	919,779	58,810	107,493	514,543
Montgomery.....	59,594	106	10,652	37,066	8,929	17,380	29,171	76,702	2,552	13,866	74,015

See footnotes at end of table.

GENERAL SUMMARY

Table 5.—GENERAL STATISTICS FOR OPERATING MANUFACTURING ESTABLISHMENTS BY SELECTED COUNTIES: 1954 AND 1947—Continued
(For explanation of column captions see Introduction)

State and county	Popula- tion, 1950	1954								1947 ¹	
		Estab- lish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man- hours (1,000)	Wages (\$1,000)				
New York—Continued											
Nassau.....	672,765	1,143	69,327	336,733	49,115	97,528	220,187	554,901	12,086	25,845	115,467
New York (Manhattan Borough) ⁴	1,960,101	25,040	523,432	2,061,173	397,286	731,268	1,279,763	3,761,244	55,451	554,701	3,446,847
Niagara.....	189,992	300	52,554	254,659	38,702	78,465	170,623	463,881	30,443	43,891	270,610
Oneida.....	222,855	375	30,402	123,558	23,699	46,000	87,869	235,749	7,826	35,743	169,831
Onondaga.....	341,719	568	57,440	242,617	40,630	81,596	157,002	478,545	24,942	54,563	275,257
Ontario.....	60,172	92	4,379	16,378	3,557	7,142	12,154	28,727	1,245	5,383	23,577
Orange.....	152,255	341	15,456	51,540	13,287	25,300	39,357	93,032	3,858	13,877	59,465
Oswego.....	77,181	131	7,862	31,070	6,097	12,668	21,586	61,295	4,118	10,493	54,887
Queens (Queens Borough) ⁴	1,550,849	2,772	125,788	519,008	99,197	195,525	352,784	944,623	30,023	97,013	582,269
Rensselaer.....	132,607	202	13,201	46,165	10,491	20,002	31,594	96,552	2,624	15,190	74,288
Richmond (Richmond Borough) ⁴	191,555	202	10,515	44,326	8,236	15,659	31,740	112,382	4,923	10,620	94,817
Rockland.....	89,276	151	10,907	44,017	8,804	18,344	31,200	138,513	5,201	7,893	53,255
St. Lawrence.....	98,897	127	9,961	41,273	8,337	17,727	32,977	75,615	3,745	8,253	41,951
Saratoga.....	74,869	127	8,016	29,179	6,727	13,517	22,531	49,957	4,716	7,397	37,498
Schenectady.....	142,497	137	36,280	185,565	23,543	47,516	111,575	329,134	34,902	33,925	133,347
Seneca.....	29,253	34	3,141	13,356	2,399	5,108	9,292	26,870	2,504	2,665	10,798
Steuben.....	91,439	115	14,234	58,841	10,803	21,716	38,906	111,376	5,260	11,596	55,447
Suffolk.....	276,129	567	41,410	197,756	31,828	66,244	133,516	345,867	6,485	13,213	49,115
Tompkins.....	59,122	70	4,504	16,805	3,820	7,593	13,336	29,985	1,388	4,728	21,827
Ulster.....	92,621	240	9,185	28,559	8,067	15,622	23,185	46,153	1,861	7,412	24,760
Warren.....	39,205	97	4,441	15,923	3,602	7,408	11,277	28,066	1,995	4,074	19,849
Washington.....	47,144	104	4,914	18,634	3,878	7,847	13,011	40,927	1,988	5,054	22,991
Wayne.....	57,323	111	5,838	20,664	4,548	9,456	13,686	38,135	2,984	4,501	23,454
Westchester.....	625,816	1,208	51,088	208,532	38,412	75,824	138,849	422,478	15,868	46,761	269,484
Wyoming.....	32,822	64	2,930	9,675	2,481	5,039	7,520	18,135	947	3,138	13,594
North Carolina:											
Alamance.....	71,220	153	18,639	56,980	15,963	30,926	43,171	104,532	3,716	15,930	76,454
Buncombe.....	124,403	163	11,071	35,391	8,758	17,645	24,251	54,838	6,909	11,942	56,697
Burke.....	45,518	102	8,291	22,096	7,574	14,109	18,051	36,168	3,278	7,201	25,041
Cabarrus.....	63,783	63	22,239	55,136	21,133	38,310	50,126	76,384	1,764	22,525	106,016
Caldwell.....	43,352	83	9,041	23,396	8,290	16,578	19,685	39,351	1,034	8,083	29,766
Catawba.....	61,794	288	15,568	36,353	14,184	26,047	29,884	59,972	3,765	12,931	40,966
Chatham.....	25,392	99	3,302	8,190	2,970	5,450	6,689	13,795	1,149	1,853	5,220
Cleveland.....	64,357	76	7,995	20,363	7,340	14,455	17,271	28,396	1,587	7,923	34,357
Cumberland.....	96,006	75	4,187	10,031	3,679	7,388	8,032	16,813	751	3,400	12,382
Davidson.....	62,244	181	13,424	34,000	12,231	22,904	27,323	52,842	2,449	11,449	42,629
Durham.....	101,639	122	13,076	39,598	11,392	21,628	32,419	144,539	7,320	16,159	101,002
Forsyth.....	146,135	187	29,930	96,515	24,498	46,431	69,027	303,756	18,956	27,368	177,425
Gaston.....	110,836	219	27,192	68,685	25,269	48,741	59,734	115,165	7,307	29,607	123,378
Guilford.....	191,057	509	37,380	104,332	33,045	59,654	77,484	169,106	8,190	28,843	125,935
Halifax.....	58,377	85	5,713	14,075	5,196	9,597	11,836	23,244	1,607	5,688	21,930
Harnett.....	47,605	56	2,632	5,773	2,519	4,220	5,376	9,071	418	2,296	11,112
Haywood.....	37,631	35	4,961	20,929	3,856	7,820	15,622	48,436	4,749	4,405	22,221
Iredell.....	56,303	132	9,349	23,626	8,526	16,201	19,845	37,397	2,003	8,651	34,605
Johnston.....	65,906	66	2,531	5,356	2,346	4,320	4,554	8,294	319	2,181	7,336
Lee.....	23,522	89	3,472	8,434	3,132	6,322	6,799	14,420	1,237	1,865	5,398
Lenoir.....	45,953	51	4,278	14,388	3,291	6,353	8,722	40,312	3,356	2,271	6,449
Lincoln.....	27,459	61	3,061	6,714	2,848	5,381	5,792	9,697	272	3,350	10,397
McDowell.....	25,720	51	5,026	13,276	4,705	9,379	11,608	23,811	1,078	3,185	11,213
Mecklenburg.....	197,052	385	21,635	68,387	17,067	33,653	45,829	128,740	5,589	18,200	80,465
Montgomery.....	17,260	97	3,392	6,651	3,115	5,252	5,491	10,597	279	2,370	5,953
Morris.....	33,129	89	2,657	6,648	2,348	4,679	5,316	10,925	221	2,466	7,762
Nash.....	59,919	67	3,905	9,647	3,344	6,431	7,187	21,510	811	2,998	11,005
New Hanover.....	63,272	101	5,129	13,832	4,195	8,472	10,217	25,820	1,405	3,329	13,366
Randolph.....	50,804	200	11,807	31,566	10,817	20,866	27,227	51,826	2,252	8,865	31,577
Richmond.....	39,597	54	4,349	12,130	4,052	8,146	10,776	17,760	1,478	4,081	14,372
Robeson.....	87,769	67	2,983	7,213	2,753	5,412	6,232	10,579	596	3,360	11,879
Rockingham.....	64,816	83	10,075	28,137	9,267	16,648	23,914	91,743	1,631	11,744	72,658
Rowan.....	75,410	111	7,838	19,627	7,148	12,874	16,071	29,633	1,631	7,835	33,757
Rutherford.....	46,356	80	7,216	17,924	6,681	12,689	15,466	30,544	2,309	6,703	36,920
Scotland.....	26,336	30	2,851	6,716	2,654	5,191	5,941	10,326	1,203	1,999	7,402
Stanly.....	37,130	64	6,976	18,272	6,395	11,140	15,356	30,187	1,464	6,627	21,944
Surry.....	45,593	107	8,255	20,686	7,728	14,521	17,350	30,626	766	6,763	21,592
Transylvania.....	15,194	27	2,901	10,687	2,244	4,361	6,693	24,899	898	1,654	16,016
Vance.....	32,101	28	2,571	6,038	2,344	4,030	4,810	9,650	480	2,736	10,747

1. Data collected at end of table.

Table 5.—GENERAL STATISTICS FOR OPERATING MANUFACTURING ESTABLISHMENTS BY SELECTED COUNTIES: 1954 AND 1947—Continued
(For explanation of column captions see Introduction)

State and county	Popula- tion, 1950	1954								1947 ¹	
		Estab- lish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man- hours (1,000)	Wages (\$1,000)				
North Carolina—Continued											
Wake.....	136,450	167	6,041	17,009	4,697	9,157	11,144	25,885	9,403	4,002	15,499
Wayne.....	64,267	70	2,728	6,476	2,302	4,195	4,686	10,174	323	2,901	9,005
Wilkes.....	45,243	100	3,205	6,465	3,006	5,564	5,482	9,995	484	2,188	5,911
Wilson.....	54,506	63	2,552	6,267	2,123	3,997	4,476	10,868	635	2,548	7,529
North Dakota:											
Burleigh.....	25,673	19	385	1,373	250	525	812	2,615	292	275	1,626
Cass.....	58,877	60	1,871	7,072	1,355	2,827	4,760	10,799	(D)	1,748	8,362
Grand Forks.....	39,443	26	656	2,467	439	932	1,567	4,706	161	924	6,970
Morton.....	19,295	16	347	1,281	219	499	711	3,413	13,096	250	(D)
Ward.....	34,782	38	490	1,653	313	680	989	3,456	150	470	3,528
Ohio:											
Allen.....	88,183	136	14,691	57,831	10,577	20,862	40,485	99,158	10,930	14,709	73,143
Ashland.....	33,040	54	5,077	20,122	3,883	7,551	13,296	31,436	1,711	4,306	28,086
Ashtabula.....	78,695	166	8,037	33,676	6,360	12,584	24,822	61,162	14,114	7,096	38,775
Auglaize.....	30,637	59	4,220	16,969	3,422	6,777	12,438	30,612	1,157	3,969	16,729
Belmont.....	87,740	86	4,256	14,096	3,662	6,734	11,867	23,516	2,800	4,627	19,037
Butler.....	147,203	182	31,764	152,989	25,604	52,818	115,403	310,319	20,399	27,047	137,406
Clark.....	111,661	201	16,823	70,435	12,462	24,989	49,432	136,505	3,129	19,446	113,247
Columbiana.....	98,920	188	12,129	48,050	9,910	18,250	36,046	79,935	2,197	12,692	59,129
Coshocton.....	31,141	78	3,993	14,875	3,160	6,293	10,497	30,748	1,197	4,474	22,351
Crawford.....	38,738	91	6,487	26,634	4,914	9,553	17,681	42,636	4,638	5,946	33,018
Cuyahoga.....	1,389,532	3,583	279,139	1,320,450	213,096	423,567	904,886	2,296,567	209,230	259,516	1,486,070
Defiance.....	25,925	60	4,267	18,171	3,616	7,331	14,185	29,303	6,789	2,503	12,936
Erie.....	52,565	129	9,085	38,898	7,362	15,210	28,895	72,044	7,166	8,814	43,834
Fairfield.....	52,130	78	7,106	24,596	5,720	10,843	18,194	42,884	1,894	5,914	24,487
Franklin.....	503,410	792	72,936	314,521	51,934	105,055	204,464	581,383	34,731	54,925	277,964
Greene.....	58,892	54	2,524	10,674	2,184	4,621	8,531	22,670	1,731	1,679	8,625
Guernsey.....	38,452	63	3,015	9,850	2,486	4,493	7,292	15,157	3,015	2,272	8,542
Hamilton.....	723,952	1,660	142,139	634,816	104,441	213,460	412,651	1,236,313	66,626	125,329	727,798
Hancock.....	44,280	82	4,744	18,561	3,622	7,406	13,087	32,198	4,156	4,585	21,495
Huron.....	39,353	85	3,185	11,781	2,525	5,123	8,253	25,912	1,391	2,729	14,129
Jefferson.....	96,495	83	11,678	51,183	10,498	19,447	43,687	96,985	9,698	10,156	53,652
Knox.....	35,287	43	3,665	16,347	3,108	6,169	12,915	28,876	1,421	4,588	23,045
Lake.....	75,979	161	11,897	55,783	9,414	19,073	39,908	104,807	8,594	8,716	57,814
Lawrence.....	49,115	44	4,561	18,609	3,833	7,572	14,904	51,710	11,037	4,180	30,046
Licking.....	70,645	97	8,480	36,199	6,205	12,365	25,304	71,488	6,617	7,088	31,571
Lorain.....	148,162	235	30,096	136,363	24,893	48,766	105,224	282,297	15,387	28,980	131,638
Lucas.....	395,551	711	61,123	296,607	46,107	89,475	203,835	534,636	30,020	70,588	393,578
Mahoning.....	257,629	332	48,398	216,282	41,195	77,323	171,586	380,460	24,747	51,445	245,384
Marion.....	49,959	72	6,706	27,728	5,425	10,653	20,789	48,541	3,223	7,231	36,837
Medina.....	40,417	70	4,511	16,581	3,626	7,015	11,841	29,844	716	4,487	18,652
Mercer.....	28,311	54	3,067	10,931	2,617	4,827	8,570	22,043	879	2,106	10,826
Miami.....	61,309	127	8,890	36,387	6,929	13,965	25,199	70,662	3,131	7,965	44,606
Montgomery.....	398,441	716	94,593	452,345	76,191	153,096	341,478	724,749	47,010	93,668	487,755
Muskingum.....	74,535	104	9,905	36,759	8,135	15,994	27,784	78,765	2,578	9,491	44,714
Ottawa.....	29,469	67	2,762	11,413	2,303	5,018	8,992	19,702	1,389	2,552	15,508
Portage.....	63,954	111	9,039	39,161	7,322	14,972	29,111	56,955	1,967	7,234	32,896
Richland.....	91,305	163	19,541	87,391	15,327	29,726	62,662	161,570	10,992	18,663	118,465
Ross.....	54,424	43	4,103	17,717	3,364	7,803	13,783	31,919	3,302	3,411	16,376
Sandusky.....	46,114	107	7,775	31,819	6,279	12,331	23,125	62,191	6,056	6,544	35,549
Scioto.....	82,910	78	8,475	29,967	6,790	12,949	22,713	45,924	38,130	11,934	40,023
Seneca.....	52,978	96	7,625	32,539	6,254	12,431	24,438	71,584	4,085	8,727	49,819
Shelby.....	28,488	60	5,318	22,724	4,596	9,745	17,840	32,502	1,728	4,136	21,933
Stark.....	283,194	456	56,762	247,442	45,351	91,705	184,284	449,371	19,083	55,564	280,241
Summit.....	410,032	600	85,905	389,094	13,170	114,746	259,900	619,497	33,909	94,011	460,327
Trumbull.....	158,915	246	37,856	174,852	31,932	61,175	137,725	305,535	17,374	36,590	200,477
Tuscarawas.....	70,320	155	9,125	35,375	3,644	7,626	27,825	59,003	3,783	8,495	41,296
Washington.....	44,407	66	4,447	17,604	3,331	6,722	12,023	35,952	12,150	2,524	14,961
Wayne.....	5,716	111	7,820	32,140	6,215	12,944	22,951	64,070	4,474	5,825	32,856
Williams.....	11,262	71	2,988	11,422	2,413	4,954	8,411	11,951	974	2,411	10,929
Wood.....	11,100	93	6,256	33,829	5,304	11,100	11,100	67,593	17,396	5,547	43,581
Oklahoma:											
Creek.....	42,102	39	1,951	7,029	1,528	2,947	4,695	12,147	701	1,574	7,111
Griffith.....	30,300	61	1,901	6,093	1,318	2,776	4,432	14,320	617	1,852	17,732
Kay.....	10,100	50	4,125	17,557	3,531	6,900	14,077	14,077	9,123	3,681	24,612
McKurtain.....	10,100	60	2,525	7,325	2,012	3,377	4,979	11,110	474	1,003	1,003
Oklahoma.....	1,000,000	400	15,899	60,893	10,874	22,623	36,896	106,399	3,693	12,887	12,887
Okmulgee.....	10,100	37	2,931	12,145	2,536	4,900	10,252	20,953	864	2,336	2,336
Tulsa.....	1,000,000	520	28,895	124,413	21,703	43,990	84,264	203,125	8,928	14,756	96,462

See page 66 for end of table.

GENERAL SUMMARY

Table 5.—GENERAL STATISTICS FOR OPERATING MANUFACTURING ESTABLISHMENTS BY SELECTED COUNTIES: 1954 AND 1947—Continued
(For explanation of column captions see introduction)

State and county	Popula- tion, 1950	1954							1947 ¹		
		Estab- lish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man- hours (1,000)	Wages (\$1,000)				
Oregon:											
Clackamas.....	86,716	284	5,077	21,413	4,411	8,283	17,642	44,219	4,215	4,120	26,315
Clatsop.....	30,776	105	3,101	11,429	2,802	4,714	9,616	16,029	648	3,176	17,673
Columbia.....	22,967	113	2,760	10,962	2,486	4,345	9,351	20,885	3,230	2,942	22,115
Coos.....	42,265	303	6,985	30,257	6,290	11,514	25,826	52,601	7,896	3,749	26,631
Douglas.....	54,549	545	9,564	41,842	8,791	16,511	37,179	80,612	5,725	5,296	38,162
Jackson.....	58,510	259	4,987	21,308	4,390	8,176	17,629	37,636	2,815	2,878	22,604
Klamath.....	42,150	72	3,779	16,272	3,348	6,383	13,926	26,571	1,507	2,971	20,232
Lane.....	125,776	700	13,980	60,059	12,155	22,929	49,544	109,063	8,080	8,721	59,346
Lincoln.....	21,308	190	2,507	9,615	2,245	3,757	7,992	16,370	1,618	1,840	10,912
Linn.....	54,317	257	6,510	27,575	5,904	11,249	24,201	53,971	2,980	4,571	32,799
Marion.....	101,401	256	5,127	18,972	4,252	8,224	14,658	39,821	2,002	5,287	30,257
Multnomah.....	471,537	1,180	40,228	173,174	30,922	59,357	118,783	315,481	11,405	39,235	225,166
Polk.....	26,317	113	2,878	10,387	2,604	4,514	9,114	21,373	907	2,110	15,007
Tillamook.....	18,606	174	2,648	10,183	2,385	4,005	8,617	15,616	1,103	1,186	6,336
Umatilla.....	41,703	67	2,532	9,416	2,172	4,183	8,178	16,755	1,684	2,000	12,281
Washington.....	61,269	189	2,991	10,987	2,501	4,652	8,393	27,288	1,379	1,670	10,046
Pennsylvania:											
Adams.....	44,197	106	5,570	14,800	4,990	9,910	11,569	24,825	1,379	5,114	17,229
Allegheny.....	1,515,237	1,680	194,898	889,005	150,178	284,914	628,904	1,653,928	106,697	222,460	1,139,275
Armstrong.....	80,842	100	6,628	29,390	5,511	10,848	23,445	74,470	2,111	7,666	74,896
Beaver.....	175,192	194	47,005	210,626	38,833	73,622	162,453	394,118	26,833	44,428	233,149
Berks.....	255,740	669	49,130	167,369	41,468	78,141	126,928	294,269	17,415	53,024	230,161
Blair.....	139,514	137	8,417	25,939	6,836	13,161	18,904	47,007	4,861	8,423	33,152
Bradford.....	51,722	61	4,256	13,820	3,419	6,408	9,913	29,177	1,092	4,005	17,937
Bucks.....	144,620	437	35,584	153,950	27,415	56,478	110,161	262,728	15,800	17,136	73,685
Butler.....	97,320	137	10,146	42,787	8,530	16,165	33,344	88,708	3,662	9,530	45,466
Cambria.....	209,541	180	20,867	77,628	17,496	29,941	59,810	113,224	6,645	22,249	95,796
Carbon.....	57,588	108	7,348	20,418	6,402	11,306	16,162	35,696	1,116	7,360	34,515
Centre.....	65,922	87	3,723	12,564	3,034	5,915	9,093	32,078	1,469	4,029	17,816
Chester.....	159,141	289	19,660	81,743	15,739	31,881	58,077	142,928	14,260	17,230	83,933
Clearfield.....	85,957	146	5,487	17,714	4,676	8,729	14,006	28,384	1,072	5,060	20,350
Clinton.....	36,532	63	5,740	20,528	4,728	9,467	15,599	36,814	1,492	5,430	26,452
Columbia.....	53,460	115	10,307	34,661	8,481	16,879	27,254	48,067	2,591	10,089	46,843
Crawford.....	78,948	136	9,452	37,073	7,160	13,843	25,898	66,867	3,107	10,378	50,083
Cumberland.....	94,457	135	7,725	24,170	6,278	11,823	16,759	47,070	3,221	7,695	30,278
Dauphin.....	197,784	273	23,956	82,753	19,902	36,844	62,019	140,962	8,718	23,189	114,307
Delaware.....	414,234	393	52,883	256,548	39,067	78,735	173,805	428,141	43,863	48,358	266,657
Elk.....	34,503	63	7,263	26,545	5,936	11,563	19,362	47,834	3,851	6,839	28,607
Erie.....	219,388	422	40,488	171,969	31,786	62,089	122,133	286,397	13,882	46,285	224,906
Fayette.....	189,899	172	7,258	22,933	6,086	11,390	17,460	41,294	1,617	9,568	48,912
Franklin.....	75,927	126	9,064	28,266	7,856	15,376	22,965	51,866	2,332	9,204	34,856
Huntingdon.....	40,872	72	3,139	9,726	2,666	4,966	7,867	16,511	716	3,899	13,102
Indiana.....	77,106	82	2,787	8,814	2,232	4,137	6,458	15,082	607	1,991	7,729
Jefferson.....	49,147	99	4,878	15,253	4,165	7,843	12,197	32,148	885	3,413	14,747
Lackawanna.....	257,396	481	31,478	94,351	26,936	50,739	73,219	164,764	12,896	24,999	83,960
Lancaster.....	234,717	612	42,545	150,619	34,663	68,491	110,273	288,553	16,059	39,139	177,965
Lawrence.....	105,120	142	13,997	60,214	11,599	22,350	46,248	105,761	3,629	16,557	77,733
Lebanon.....	81,683	182	12,248	39,600	10,568	19,827	30,630	68,252	3,099	13,391	49,441
Lehigh.....	198,207	479	33,458	116,251	27,393	52,984	84,041	209,871	7,890	35,720	148,372
Luzerne.....	392,241	632	36,902	97,448	32,866	59,382	79,839	156,328	5,273	35,676	126,165
Lycoming.....	101,249	236	17,953	61,071	15,051	29,688	45,949	106,455	3,502	15,335	58,645
McKean.....	56,607	126	7,190	26,195	5,711	11,646	18,636	48,490	3,564	6,271	33,089
Mercer.....	111,954	145	19,391	88,613	15,257	28,022	64,742	187,613	7,006	20,986	123,527
Mifflin.....	43,691	64	6,310	23,100	5,340	10,242	18,719	33,832	1,818	7,243	32,055
Monroe.....	33,773	106	4,119	13,376	3,487	6,366	10,509	21,191	1,105	3,742	17,339
Montgomery.....	353,068	831	60,003	247,459	47,575	94,360	176,123	435,514	39,616	57,121	284,145
Northampton.....	185,243	410	46,756	168,784	38,874	71,262	127,698	312,557	33,053	43,764	170,846
Northumberland.....	117,115	172	12,984	38,442	11,101	20,578	29,658	72,150	4,667	14,325	58,016
Philadelphia.....	2,071,605	5,214	309,792	1,251,162	235,175	457,213	833,225	2,215,118	112,489	328,325	1,730,141
Schuylkill.....	200,577	276	18,662	48,957	16,559	30,498	39,810	83,339	12,048	16,631	49,773
Tioga.....	35,474	45	3,197	11,075	2,859	5,649	9,278	19,059	1,745	3,456	20,223
Venango.....	65,328	107	7,252	27,555	5,660	10,535	20,333	55,017	3,614	8,571	49,414
Warren.....	42,698	96	4,898	19,424	3,872	7,814	14,214	39,063	1,576	5,070	24,540
Washington.....	209,628	165	21,687	93,080	18,516	35,762	74,972	156,954	9,107	21,727	97,876
Westmoreland.....	313,179	342	39,818	171,704	31,924	60,213	128,790	275,530	21,366	49,313	234,027
York.....	202,737	624	45,275	161,621	36,004	73,779	113,700	282,942	18,262	42,117	189,999

See footnotes at end of table.

Table 5.—GENERAL STATISTICS FOR OPERATING MANUFACTURING ESTABLISHMENTS BY SELECTED COUNTIES: 1954 AND 1947—Continued

(For explanation of column captions see Introduction)

State and county	Popula- tion, 1950	1954							1947 ¹		
		Estab- lish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man- hours (1,000)	Wages (\$1,000)				
Rhode Island:											
Bristol.....	29,079	59	5,167	17,401	4,367	8,660	13,461	29,139	1,015	5,832	27,181
Kent.....	77,763	201	8,142	26,963	7,041	14,110	21,763	39,975	1,669	7,722	36,665
Newport.....	61,539	50	1,011	3,314	819	1,551	2,425	8,330	184	690	2,445
Providence.....	574,973	2,248	105,735	364,228	88,113	176,561	266,221	599,873	24,013	128,414	574,592
Washington.....	48,542	77	3,913	13,457	3,458	6,882	10,594	19,961	788	4,724	18,022
South Carolina:											
Abbeville.....	22,456	20	2,781	7,760	2,637	4,202	6,878	9,515	537	2,679	12,497
Aiken.....	53,137	49	19,146	87,504	8,927	17,758	30,083	106,141	1,594	6,155	19,149
Anderson.....	90,664	110	16,816	46,129	15,744	32,131	40,910	74,458	4,914	13,822	64,476
Charleston.....	164,856	151	9,233	26,930	7,508	14,797	19,441	54,333	5,835	9,972	39,617
Cherokee.....	34,992	42	4,371	10,749	4,183	8,115	9,728	15,513	802	3,910	17,568
Chester.....	32,597	45	4,685	13,115	4,377	8,983	11,830	23,038	1,416	4,798	15,701
Darlington.....	50,016	51	4,966	15,839	4,347	8,636	12,383	28,387	2,029	4,474	18,367
Florence.....	79,710	84	2,589	5,770	2,171	4,212	4,115	9,064	1,181	1,864	5,950
Georgetown.....	31,762	68	3,023	(D)	2,662	(D)	(D)	(D)	(D)	2,992	(D)
Greenville.....	168,152	248	27,349	78,079	24,307	48,950	62,929	124,076	5,557	26,274	128,045
Greenwood.....	41,628	74	10,875	30,551	10,237	20,492	27,537	53,360	2,624	11,000	48,723
Kershaw.....	32,287	52	2,804	10,582	2,302	4,668	7,392	40,592	1,196	1,147	3,969
Lancaster.....	37,071	35	7,677	(D)	7,063	(D)	(D)	(D)	(D)	6,317	26,128
Laurens.....	46,974	48	6,861	18,543	6,477	12,971	16,358	28,271	713	6,594	30,590
Marlboro.....	31,766	27	2,562	6,675	2,317	4,560	5,225	10,220	908	1,652	6,395
Newberry.....	31,771	73	4,013	9,882	3,700	7,079	8,952	16,539	368	4,272	18,349
Oconee.....	39,050	61	5,774	13,973	5,489	10,726	12,717	20,719	1,433	3,519	14,920
Orangeburg.....	68,726	81	3,192	7,903	2,723	5,439	5,719	11,698	446	2,814	8,975
Pickens.....	40,058	55	5,086	13,633	4,739	10,098	12,181	21,363	5,437	4,979	17,629
Richland.....	142,565	147	7,691	20,847	6,284	12,541	15,166	35,603	2,100	6,935	27,190
Spartanburg.....	150,349	149	25,153	68,814	23,181	46,377	59,694	104,607	4,854	24,340	113,225
Sumter.....	57,634	64	2,745	6,355	2,346	4,804	4,672	11,990	546	3,325	9,451
Union.....	31,334	45	5,359	14,264	5,071	10,128	12,896	20,526	745	5,316	28,660
York.....	71,596	69	12,085	36,616	10,803	21,498	30,392	67,580	2,820	10,452	41,665
South Dakota:											
Beadle.....	21,082	16	541	(D)	423	(D)	(D)	(D)	(D)	660	(D)
Brown.....	32,617	34	707	2,499	469	1,020	1,508	4,393	190	662	2,958
Codington.....	18,944	22	768	2,661	561	1,160	1,796	4,291	251	619	3,749
Minnehaha.....	70,910	81	5,402	21,656	3,848	8,422	14,400	44,511	1,436	4,804	27,462
Pennington.....	34,053	48	913	3,131	653	1,365	2,032	5,101	406	914	4,490
Tennessee:											
Anderson.....	59,407	23	5,997	27,523	4,399	8,801	18,447	59,705	246	1,079	3,356
Blount.....	54,691	44	7,314	(D)	6,128	(D)	(D)	(D)	(D)	10,209	(D)
Bradley.....	32,338	69	4,143	10,931	3,652	7,325	8,111	21,105	1,367	3,622	14,788
Carter.....	42,432	38	4,060	14,123	3,204	5,979	9,311	24,467	5,499	6,020	(D)
Davidson.....	321,758	462	30,499	104,061	23,295	47,021	69,742	203,655	11,025	29,841	131,871
Gibson.....	48,132	44	6,655	22,432	6,115	11,109	17,474	30,163	980	2,503	7,273
Hamblen.....	23,976	50	4,359	13,502	3,532	7,618	9,767	31,735	1,627	1,989	6,115
Hamilton.....	208,255	365	37,066	128,447	30,552	59,292	94,791	250,889	32,158	33,184	128,851
Knox.....	223,007	279	20,592	62,289	16,945	32,860	44,476	104,594	4,667	19,905	74,962
Loudon.....	23,182	28	2,559	5,481	2,357	4,521	4,645	7,879	342	1,576	3,429
McMinn.....	32,024	76	3,310	8,448	2,934	5,583	6,645	14,249	22,311	2,265	7,293
Madison.....	60,128	61	3,405	8,935	2,864	5,594	6,899	13,804	492	3,128	15,166
Mauzy.....	40,368	46	3,647	12,888	3,072	6,080	9,874	29,897	2,575	2,512	14,278
Roane.....	31,665	35	8,740	39,200	6,094	12,387	23,608	85,087	1,465	2,998	7,620
Shelby.....	482,393	632	41,804	152,582	32,310	65,441	103,324	336,167	31,773	36,042	202,438
Sullivan.....	95,063	82	18,039	79,171	13,909	28,751	54,666	145,474	14,639	17,981	96,089
Washington.....	59,971	72	3,399	9,040	2,970	5,845	7,066	15,595	969	3,193	12,085
Texas:											
Angelina.....	36,032	65	4,295	15,512	3,607	7,759	11,878	32,627	3,289	4,522	23,565
Bexar.....	500,460	551	17,894	54,372	13,186	27,186	33,715	111,139	5,098	15,514	68,931
Bowie.....	61,966	59	4,279	14,094	3,540	7,055	10,634	21,793	2,144	2,536	8,719
Brazoria.....	46,549	26	6,654	35,129	4,686	9,345	23,043	147,257	29,221	4,023	(D)
Cameron.....	125,170	112	2,977	7,152	2,298	4,669	4,633	14,644	954	2,461	9,967
Dallas.....	614,799	1,369	72,770	290,812	52,757	107,581	181,510	508,271	20,021	38,828	238,839
El Paso.....	194,968	180	9,232	28,534	7,581	15,176	21,032	51,252	16,883	6,176	35,175
Galveston.....	113,066	87	10,910	54,437	8,104	15,717	37,999	156,569	28,332	8,716	71,361
Grayson.....	70,467	78	4,187	13,223	3,295	6,981	9,152	31,826	1,362	3,576	25,401
Gregg.....	61,258	82	2,889	11,177	2,010	4,250	6,679	12,253	4,677	2,365	9,806
Harris.....	806,701	1,401	77,756	362,976	57,532	118,601	243,154	868,747	87,235	58,254	384,718
Harrison.....	47,745	60	3,071	9,634	2,454	5,054	6,626	17,587	10,389	2,584	7,977
Hutchinson.....	31,580	22	3,062	14,988	2,162	4,287	10,310	54,057	3,629	3,227	69,171
Jefferson.....	195,083	190	25,445	125,098	20,260	40,117	94,567	222,802	66,999	23,181	177,508

See footnotes at end of table.

GENERAL SUMMARY

Table 5.--GENERAL STATISTICS FOR OPERATING MANUFACTURING ESTABLISHMENTS BY SELECTED COUNTIES: 1954 AND 1947--Continued
(For explanation of column captions see Introduction)

State and county	Popula- tion, 1950	Estab- lish- ments, number	1954							1947 ¹	
			All employees		Production workers			Value added by manu- facture	Capital expendi- tures, new	All employees, number	Value added by manu- facture
			Number	Payroll (\$1,000)	Number	Man- hours (1,000)	Wages (\$1,000)				
Texas—Continued											
Lubbock.....	101,048	126	2,818	10,134	1,900	4,294	5,827	22,902	2,042	1,470	8,558
McLennan.....	130,194	147	7,715	26,521	5,898	12,240	18,273	62,764	7,739	6,451	32,621
Nueces.....	165,471	150	6,721	28,241	4,589	11,298	17,990	71,593	6,424	4,577	41,599
Orange.....	40,567	39	5,380	25,541	3,813	7,539	16,128	76,285	12,761	3,835	16,598
Potter.....	73,366	118	3,115	12,309	2,050	4,332	7,463	24,586	18,488	2,426	14,985
Smith.....	74,701	101	3,726	12,520	3,064	6,062	9,391	23,664	3,897	2,459	11,676
Tarrant.....	361,253	601	48,367	211,122	37,308	73,993	148,799	368,152	16,527	32,039	146,501
Taylor.....	63,370	73	2,532	7,443	1,818	3,718	4,482	20,753	711	1,294	5,068
Travis.....	160,980	143	3,388	11,003	2,280	4,619	6,318	17,816	961	2,554	11,793
Wichita.....	98,493	101	3,015	11,012	2,280	4,670	7,343	26,350	1,058	2,972	21,648
Utah:											
Cache.....	33,536	36	788	2,305	667	1,299	1,840	5,460	350	881	6,902
Davis.....	30,867	32	1,071	4,153	787	1,639	2,846	9,703	1,270	766	4,440
Salt Lake.....	274,895	446	15,110	60,156	11,432	22,735	40,656	161,496	8,193	10,836	57,779
Utah.....	81,912	84	6,734	30,397	5,316	10,354	22,505	56,578	10,223	5,894	31,105
Weber.....	83,319	85	2,937	11,029	2,116	4,274	7,256	21,743	1,896	3,303	14,470
Vermont:											
Bennington.....	24,115	79	3,458	11,342	2,939	5,797	8,589	19,570	871	3,365	11,719
Chittenden.....	62,570	114	4,978	17,520	3,764	7,396	11,893	30,805	(D)	5,766	23,708
Rutland.....	45,905	138	4,538	13,113	3,855	7,406	10,147	22,669	793	3,364	13,773
Washington.....	42,870	174	3,232	10,876	2,711	5,247	8,583	16,338	553	3,261	14,801
Windham.....	28,749	129	3,321	10,222	2,917	5,915	8,245	20,558	741	3,278	16,887
Windsor.....	40,885	104	8,012	33,987	6,658	13,160	25,701	62,724	3,017	7,073	26,662
Virginia (counties and independent cities):											
Bristol city.....	15,954	42	3,039	9,269	2,417	4,697	6,446	15,663	492	3,557	11,042
Campbell county.....	28,877	63	3,347	10,808	2,846	6,199	7,954	17,498	948	3,301	15,999
Chesterfield county.....	40,400	42	4,738	(D)	3,522	(D)	(D)	(D)	(D)	(NA)	(NA)
Covington city.....	5,860	13	2,869	11,109	2,318	4,582	8,374	26,622	(D)	(NA)	(NA)
Danville city.....	35,066	57	13,240	38,993	11,721	22,150	30,490	54,062	4,170	(NA)	(NA)
Giles county.....	18,956	20	2,533	9,263	1,979	3,780	6,705	33,804	1,147	4,522	(D)
Halifax county.....	41,442	39	2,652	6,213	2,394	4,649	5,088	10,710	414	2,673	12,789
Henry county.....	31,219	81	8,315	27,229	7,252	14,357	21,146	138,070	1,778	7,167	47,187
Hopewell city.....	10,219	14	4,417	18,682	3,346	7,026	13,297	52,932	(D)	3,962	27,670
Isle of Wight county.....	14,906	29	2,569	8,962	2,157	4,458	6,482	21,376	2,196	1,702	13,663
Lynchburg city.....	47,727	87	10,299	27,734	8,774	16,653	21,446	41,010	3,040	8,794	29,703
Martinsville city.....	17,251	38	5,700	14,172	4,974	10,216	11,970	24,254	647	2,548	10,560
Mecklenburg county.....	33,497	58	2,795	6,509	2,447	4,415	4,969	10,916	782	1,407	4,687
Newport News city.....	42,358	44	16,328	74,488	15,052	30,028	67,665	101,730	2,252	12,081	47,037
Norfolk city.....	213,513	210	10,683	39,328	8,290	16,811	26,408	81,006	3,102	10,403	54,539
Petersburg city.....	35,054	58	6,013	16,754	5,451	10,684	14,061	50,471	1,779	5,340	19,182
Radford city.....	9,026	10	6,549	26,355	5,495	10,751	20,990	31,417	10,090	1,247	(D)
Richmond city.....	230,310	381	30,375	102,915	23,998	46,383	71,193	285,599	15,719	28,126	204,385
Roanoke county.....	41,486	45	3,008	9,998	2,577	5,150	7,743	15,585	704	5,455	27,515
Roanoke city.....	91,921	104	9,724	32,595	7,659	15,774	22,928	47,338	4,973	5,832	22,077
Rockbridge county.....	23,359	28	2,621	(D)	2,333	(D)	(D)	(D)	(D)	1,987	13,216
Smyth county.....	30,187	32	3,551	11,592	3,083	6,051	9,242	30,187	763	3,196	11,054
Spotsylvania county.....	11,920	34	2,875	(D)	2,394	(D)	(D)	(D)	(D)	2,810	(D)
Suffolk city.....	12,339	30	2,527	6,162	2,321	4,611	5,219	17,529	563	(NA)	(NA)
Warren county.....	14,801	18	2,686	10,270	2,223	4,564	8,022	29,835	1,585	3,710	(D)
Waynesboro city.....	12,357	23	4,682	19,161	3,620	7,050	12,457	34,502	4,647	(NA)	(NA)
Washington:											
Chelan.....	39,301	64	2,542	11,054	2,079	4,189	8,731	29,104	979	1,548	7,382
Clallam.....	26,396	120	3,204	15,137	2,871	5,337	13,032	37,592	4,372	1,960	19,249
Clark.....	85,307	134	8,431	34,422	7,004	13,650	27,216	88,032	10,190	6,618	52,746
Cowlitz.....	53,369	161	8,934	38,242	7,969	14,507	32,510	99,540	13,460	8,140	69,781
Grays Harbor.....	53,644	203	7,590	30,739	6,870	12,011	26,375	51,368	3,865	7,465	48,463
King.....	732,992	1,447	78,447	354,664	54,931	105,211	220,541	520,928	21,823	54,770	265,422
Lewis.....	43,755	223	2,903	11,149	2,550	4,427	9,195	21,015	1,071	2,440	12,365
Pierce.....	275,876	432	17,052	72,643	14,090	26,499	55,674	145,873	7,504	16,896	106,426
Skagit.....	43,273	158	3,659	15,099	3,121	5,513	12,194	27,647	2,266	3,002	18,951
Snohomish.....	111,580	294	9,279	37,596	8,101	14,614	31,090	78,884	33,947	8,854	71,833
Spokane.....	221,561	330	13,674	59,851	10,757	21,326	43,888	135,949	5,296	10,852	71,980
Thurston.....	44,884	104	3,318	14,551	2,798	5,220	11,537	26,744	2,708	2,493	14,908
Whatcom.....	66,733	164	4,679	19,122	3,962	7,284	15,281	40,199	26,203	3,566	22,919
Yakima.....	135,723	165	4,844	18,754	3,889	7,896	13,864	39,781	2,194	4,466	22,226

See footnotes at end of table.

Table 5.—GENERAL STATISTICS FOR OPERATING MANUFACTURING ESTABLISHMENTS BY SELECTED COUNTIES: 1954 AND 1947—Continued
(For explanation of column captions see Introduction)

State and county	Popula- tion, 1950	1954								1947 ¹	
		Estab- lish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man- hours (1,000)	Wages (\$1,000)				
West Virginia:											
Berkeley.....	30,359	44	3,454	9,697	2,923	5,630	7,420	19,381	1,168	4,188	13,181
Brooke.....	26,904	40	4,167	16,818	3,576	6,735	13,386	32,063	4,889	4,674	24,217
Cabell.....	108,035	140	13,793	52,525	10,886	20,798	36,975	105,863	5,402	12,106	56,103
Hancock.....	34,388	32	16,008	(D)	14,540	(D)	(D)	(D)	(D)	17,580	92,471
Harrison.....	85,296	84	6,597	26,773	5,622	10,608	22,561	45,423	1,543	7,264	36,335
Kanawha.....	239,629	182	21,222	107,455	15,818	31,707	74,963	260,482	26,928	23,073	178,158
Marion.....	71,521	52	4,304	17,272	3,656	7,313	13,741	35,620	1,247	6,686	35,037
Marshall.....	36,893	34	5,828	22,167	5,055	9,227	17,940	43,841	11,102	5,683	29,164
Monongalia.....	60,797	60	3,468	11,890	2,612	5,102	8,935	24,223	1,974	2,316	9,281
Ohio.....	71,672	110	7,750	30,000	6,270	11,717	22,118	50,091	2,550	9,031	40,968
Putnam.....	21,021	15	2,518	11,191	1,810	3,746	7,437	35,120	2,988	2,493	22,642
Wood.....	66,540	81	7,919	30,235	6,416	12,767	22,251	62,924	3,439	9,434	42,277
Wisconsin:											
Brown.....	98,814	241	11,071	47,193	8,921	19,220	35,474	92,972	5,981	9,491	54,566
Chippewa.....	42,839	81	3,076	11,394	2,260	4,548	7,579	24,270	1,588	1,940	10,521
Dane.....	169,357	261	13,355	55,714	10,021	20,046	38,332	95,893	4,368	10,671	49,070
Dodge.....	57,611	151	5,271	18,197	4,303	8,781	13,635	38,301	2,003	5,729	31,576
Eau Claire.....	54,187	77	6,337	30,162	5,055	10,821	23,574	53,857	2,636	8,672	47,226
Fond du Lac.....	67,829	142	7,784	30,127	6,083	11,947	20,066	60,457	1,748	7,153	38,410
Jefferson.....	43,069	111	6,506	25,285	5,044	10,430	17,073	42,832	1,869	5,833	28,614
Kenosha.....	75,238	116	15,113	65,925	11,618	22,200	48,386	110,401	4,443	17,069	99,694
La Crosse.....	67,587	113	9,078	38,635	6,946	14,249	27,309	66,888	3,429	9,700	51,813
Manitowoc.....	67,159	178	11,225	42,813	9,236	19,460	32,333	85,594	2,542	9,774	61,499
Marathon.....	80,337	179	8,902	33,008	7,308	14,764	24,522	62,097	6,336	8,593	47,763
Marinette.....	35,748	102	3,993	15,999	3,112	6,279	11,345	35,386	1,574	4,004	17,763
Milwaukee.....	871,047	1,979	175,802	809,880	129,608	255,419	538,856	1,439,620	68,648	178,412	972,613
Outagamie.....	81,722	172	10,382	40,750	8,527	18,013	30,674	76,260	3,296	10,211	52,712
Ozaukee.....	23,361	85	4,114	15,477	3,234	6,519	10,500	25,716	1,692	3,592	18,456
Racine.....	109,585	303	22,024	99,999	15,934	31,424	64,234	204,641	8,666	22,512	124,664
Rock.....	92,778	124	17,279	76,435	14,064	28,183	57,456	169,189	10,445	16,200	91,738
Sauk.....	38,120	77	4,256	15,986	3,296	6,921	11,693	20,435	478	1,025	3,750
Sheboygan.....	80,631	238	12,071	48,531	9,594	20,382	34,293	80,807	2,949	13,485	71,410
Walworth.....	41,584	87	3,222	12,477	2,699	5,379	9,375	23,583	1,461	2,718	10,935
Washington.....	33,902	83	5,218	20,140	4,150	8,177	13,548	38,749	1,535	4,219	21,396
Waukesha.....	85,901	243	8,014	33,502	6,104	12,199	23,141	54,333	2,756	7,280	40,929
Winnebago.....	91,103	240	16,378	67,230	13,485	28,310	50,973	129,759	7,526	15,432	85,397
Wood.....	50,500	112	7,827	29,755	6,604	13,462	23,526	59,486	5,952	7,092	39,704
Wyoming:											
Albany.....	19,055	22	553	2,075	459	975	1,680	3,621	136	603	2,177
Carbon.....	15,742	19	771	(D)	640	(D)	(D)	(D)	(D)	693	(D)
Laramie.....	47,662	37	840	3,551	439	872	1,992	6,489	559	569	4,953
Natrona.....	31,437	34	1,728	8,927	1,284	2,497	6,264	14,566	4,534	1,287	7,363
Park.....	15,182	14	334	1,640	200	428	799	1,462	256	218	(D)

D Withheld to avoid disclosing figures for individual companies. NA Not available.

¹The 1947 data are not strictly comparable with the figures shown for 1954 due to differences in coverage of loggers and fluid milk distributors. See discussion in Introduction.

²San Francisco city is coextensive with San Francisco county.

³The independent cities of Baltimore, Md., and St. Louis, Mo., are treated as counties.

⁴A borough of New York City.

Table 6A.—MANUFACTURING EMPLOYMENT FOR REGIONS AND DIVISIONS: 1954

(For explanation of column captions, see INTRODUCTION)

Region and division ¹	Total manufacturing employment		Employment at operating manufacturing establishments		Employment at administrative and auxiliary units	
	(Number)	Payroll (\$1,000)	Number	Payroll (\$1,000)	Number	Payroll (\$1,000)
United States, total.....	16,125,550	65,976,667	15,651,294	62,993,321	474,256	2,983,346
Northeast.....	5,741,317	23,333,731	5,536,548	22,012,291	204,769	1,321,440
New England.....	1,450,025	5,460,694	1,431,300	5,356,133	18,725	104,561
Middle Atlantic.....	4,291,292	17,873,037	4,105,248	16,656,158	186,044	1,216,879
North Central.....	5,568,294	24,788,978	5,399,186	23,735,074	169,108	1,053,904
East North Central.....	4,604,516	20,925,690	4,459,829	20,003,625	144,687	922,065
West North Central.....	963,778	3,863,288	939,357	3,731,449	24,421	131,839
South.....	3,242,909	10,863,209	3,173,495	10,448,100	69,414	415,109
South Atlantic.....	1,778,959	5,702,560	1,745,372	5,480,901	33,587	221,659
East South Central.....	729,947	2,366,908	714,758	2,288,840	15,189	78,068
West South Central.....	734,003	2,793,741	713,365	2,678,359	20,638	115,382
West.....	1,572,939	6,990,437	1,541,974	6,797,544	30,965	192,893
Mountain.....	190,674	766,726	187,493	749,586	3,181	17,140
Pacific.....	1,382,265	6,223,711	1,354,481	6,047,958	27,784	175,753

¹See Table 4A for states included within each division.

GENERAL SUMMARY

Table 6B.—GENERAL STATISTICS FOR OPERATING MANUFACTURING ESTABLISHMENTS FOR INDUSTRY GROUPS BY REGIONS AND DIVISIONS: 1954 AND 1947

(For explanation of column captions see introduction)

Code	Major industry group, region and division ¹	Establishments, number	1954						1947		
			All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours ((1,000)	Wages (\$1,000)				
	All industries:										
	United States, total.....	286,817	15,651,294	62,993,321	12,373,030	24,341,239	44,595,457	116,912,526	7,818,155	214,293,963	274,290,475
	Northeast.....	107,005	5,536,548	22,012,291	4,366,559	8,493,011	15,383,625	39,530,471	1,975,353	5,429,032	27,566,105
	New England.....	24,625	1,431,300	5,356,133	1,154,083	2,275,672	3,858,699	9,128,281	424,264	1,475,162	6,798,114
	Middle Atlantic.....	82,380	4,105,248	16,656,158	3,212,476	6,217,339	11,524,926	30,402,190	1,551,089	3,953,870	20,767,991
	North Central.....	77,966	5,399,186	23,735,074	4,202,876	8,390,603	16,838,658	43,614,345	3,043,004	5,108,959	27,589,889
	East North Central.....	58,946	4,459,829	20,003,625	3,489,654	6,964,115	14,265,381	36,500,510	2,653,891	4,322,812	23,474,185
	West North Central.....	19,020	939,357	3,731,449	713,222	1,426,488	2,573,277	7,113,835	389,113	786,147	4,115,706
	South.....	59,853	3,173,495	10,448,100	2,624,196	5,143,158	7,654,080	21,080,627	1,906,315	2,710,095	12,856,500
	South Atlantic.....	30,530	1,745,372	5,480,901	1,466,333	2,847,757	4,072,169	10,657,729	789,254	1,523,890	6,941,906
	East South Central.....	12,854	714,758	2,288,840	601,493	1,166,807	1,713,827	4,701,863	395,995	635,445	2,884,391
	West South Central.....	16,469	713,365	2,678,359	556,370	1,128,594	1,868,084	5,721,035	721,066	(3)	(3)
	West.....	41,993	1,541,974	6,797,544	1,179,121	2,313,922	4,718,355	12,689,115	891,587	(3)	(3)
	Mountain.....	6,685	187,493	749,586	144,101	286,848	532,152	1,505,145	126,844	(3)	(3)
	Pacific.....	35,308	1,354,481	6,047,958	1,035,020	2,027,074	4,186,203	11,183,970	764,743	(3)	(3)
20	Food and kindred products:										
	United States, total.....	42,374	1,647,204	6,201,500	1,138,239	2,316,661	3,759,071	13,400,218	789,050	(4)	(4)
	Northeast.....	11,052	409,852	1,600,951	276,764	557,023	945,861	3,396,690	159,323		
	New England.....	3,032	84,052	298,275	55,177	109,553	166,999	554,867	27,914		
	Middle Atlantic.....	8,020	325,800	1,302,675	221,586	447,469	778,862	2,841,823	131,408		
	North Central.....	14,274	608,619	2,440,629	429,495	889,630	1,548,526	5,115,794	295,517		
	East North Central.....	9,422	391,908	1,586,879	274,814	564,946	981,007	3,447,433	194,767		
	West North Central.....	4,852	216,710	853,750	154,680	324,683	567,519	1,668,361	100,749		
	South.....	10,896	394,128	1,233,893	265,386	543,875	689,262	2,800,372	181,879		
	South Atlantic.....	4,813	186,465	568,862	126,189	256,340	312,634	1,236,284	92,193		
	East South Central.....	2,302	80,621	261,987	54,014	111,536	150,858	642,297	34,972		
	West South Central.....	3,781	127,041	403,044	85,182	175,998	225,770	921,791	54,713		
	West.....	6,152	234,603	926,025	166,593	326,132	575,420	2,087,361	152,330		
	Mountain.....	1,738	44,420	157,241	31,440	64,015	99,130	325,188	24,835		
	Pacific.....	4,414	190,183	768,784	135,152	262,116	476,290	1,762,172	127,495		
21	Tobacco manufactures:										
	United States, total.....	627	94,863	259,689	87,073	162,988	219,736	988,001	28,018	111,782	641,356
	Northeast.....	292	22,477	55,121	20,769	38,059	47,787	120,921	2,330	28,306	107,623
	New England.....	45	876	2,035	764	1,288	1,483	3,991	229	1,379	3,957
	Middle Atlantic.....	247	21,600	53,085	20,004	36,770	46,304	116,929	2,100	26,927	103,666
	North Central.....	95	4,738	13,198	4,143	7,560	10,045	36,393	399	7,849	38,071
	East North Central.....	84	4,034	(D)	3,551	(D)	(D)	(D)	(D)	(D)	(D)
	West North Central.....	11	704	(D)	592	(D)	(D)	(D)	(D)	(D)	(D)
	South.....	226	67,289	190,369	61,864	116,887	161,208	829,234	25,238	75,627	495,662
	South Atlantic.....	163	53,711	150,802	49,207	92,038	126,917	644,244	17,617		
	East South Central.....	57	12,391	37,429	11,525	22,964	32,329	180,858	7,595		
	West South Central.....	6	1,187	2,137	1,130	1,885	1,962	4,131	26		
	West.....	14	357	1,001	296	481	694	1,453	49		
	Mountain.....	...	...	...	...	...	...	...	...
	Pacific.....	14	357	1,001	296	481	694	1,453	49		
22	Textile mill products:										
	United States, total.....	8,070	1,037,440	3,032,490	947,502	1,821,075	2,526,564	4,748,586	225,914	1,232,293	5,322,899
	Northeast.....	5,093	381,299	1,288,035	336,909	655,587	1,021,459	2,032,232	73,229	574,217	2,595,258
	New England.....	1,383	168,194	558,124	149,959	294,738	453,406	844,484	27,316	281,939	1,224,525
	Middle Atlantic.....	3,710	213,105	729,910	186,949	360,849	568,052	1,187,747	45,913	292,278	1,370,733
	North Central.....	445	42,191	146,241	35,586	69,014	105,224	250,460	8,728	54,658	243,984
	East North Central.....	370	35,535	125,977	30,191	58,854	91,251	218,079	7,435	46,284	215,705
	West North Central.....	75	6,656	20,264	5,394	10,159	13,973	32,381	1,292	8,374	28,279
	South.....	2,296	604,848	1,564,789	567,500	1,081,560	1,376,152	2,407,461	141,139	593,820	2,434,230
	South Atlantic.....	1,873	501,674	1,311,353	470,564	900,017	1,154,635	2,009,533	120,074	484,285	2,021,825
	East South Central.....	321	88,715	216,983	83,520	154,580	190,260	340,936	17,396	97,002	368,172
	West South Central.....	102	14,458	36,453	13,415	26,962	31,257	56,991	3,669	12,533	44,233
	West.....	236	9,101	33,424	7,506	14,913	23,727	58,432	2,816	9,598	49,427
	Mountain.....	11	379	1,133	318	652	786	1,515	43	633	1,604
	Pacific.....	225	8,721	32,290	7,187	14,260	22,941	56,917	2,773	8,965	47,823
23	Apparel and related products:										
	United States, total.....	31,372	1,190,064	3,201,795	1,069,867	1,898,999	2,521,135	5,147,371	76,552	1,081,670	4,439,597
	Northeast.....	22,707	701,798	2,018,121	629,842	1,104,860	1,588,797	3,241,795	32,379	667,762	2,967,206
	New England.....	1,874	86,849	226,900	79,304	141,735	184,377	362,163	4,576	74,394	275,880
	Middle Atlantic.....	20,833	614,949	1,791,220	550,537	963,125	1,404,420	2,879,631	27,803	593,368	2,691,326
	North Central.....	3,309	162,805	450,472	141,368	252,370	333,540	707,320	16,826	181,088	694,582
	East North Central.....	2,406	110,567	316,448	95,201	168,962	231,606	495,060	13,198	126,956	508,445
	West North Central.....	903	52,237	134,024	46,166	83,406	101,933	212,260	3,627	54,132	186,137
	South.....	2,778	259,303	540,502	240,481	438,526	450,984	869,544	21,362	181,771	561,215
	South Atlantic.....	1,571	134,933	293,113	124,376	226,333	242,669	468,739	12,734	99,733	328,565
	East South Central.....	519	82,028	158,300	77,468	141,518	137,586	256,962	5,230	50,779	135,152
	West South Central.....	688	42,341	89,083	38,635	70,674	70,727	143,843	3,398	31,259	97,498
	West.....	2,578	66,156	192,700	58,176	103,243	147,811	328,711	5,984	51,049	216,594
	Mountain.....	192	4,546	10,220	3,980	7,159	7,732	16,539	392	3,244	9,824
	Pacific.....	2,386	61,610	182,480	54,195	96,083	140,079	312,171	5,592	47,805	206,770

See footnotes at end of table.

Table 6B.—GENERAL STATISTICS FOR OPERATING MANUFACTURING ESTABLISHMENTS FOR INDUSTRY GROUPS BY REGIONS AND DIVISIONS: 1954 AND 1947—Continued
(For explanation of column captions see Introduction)

Code	Major industry group, region and division ¹	1954								1947	
		Establishments, number	All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours ((1,000)	Wages (\$1,000)				
24	Lumber and wood products:										
	United States, total.....	41,484	645,936	1,933,523	581,920	1,106,955	1,604,859	3,188,409	217,361		
	Northeast.....	6,913	74,342	213,594	64,787	129,864	169,331	327,250	18,590		
	New England.....	3,541	36,759	96,981	32,552	65,570	80,147	145,890	9,526		
	Middle Atlantic.....	3,372	37,583	116,613	32,234	64,294	89,184	181,359	9,064		
	North Central.....	6,116	89,948	292,114	76,508	150,248	219,272	458,677	20,945		
	East North Central....	4,302	66,020	216,759	56,266	111,257	162,080	340,851	16,234		
	West North Central....	1,814	23,927	75,354	20,241	38,990	57,191	117,825	4,711		
	South.....	18,501	275,327	569,288	253,181	479,303	477,964	915,019	58,033	(4)	(4)
	South Atlantic.....	10,308	135,102	268,860	124,225	228,252	224,843	431,308	26,940		
	East South Central....	4,883	76,290	155,767	70,234	131,496	130,182	259,825	13,567		
	West South Central....	3,310	63,934	144,660	58,721	119,555	122,939	223,885	17,524		
	West.....	9,954	206,317	858,526	187,444	347,538	738,291	1,487,462	119,792		
	Mountain.....	1,618	27,418	102,457	24,947	47,791	88,674	172,093	19,712		
	Pacific.....	8,336	178,899	756,068	162,497	299,746	649,616	1,315,369	100,080		
25	Furniture and fixtures:										
	United States, total.....	10,273	340,694	1,197,376	286,649	571,294	892,891	1,966,410	61,945	316,273	1,346,277
	Northeast.....	3,532	89,657	326,327	74,983	148,852	244,692	539,263	14,038	80,723	366,045
	New England.....	743	19,978	69,232	16,839	33,757	51,478	108,252	2,940	17,992	74,095
	Middle Atlantic.....	2,789	69,678	257,094	58,143	115,095	193,214	431,010	11,098	62,731	291,950
	North Central.....	2,423	115,987	455,295	95,566	189,942	335,521	738,302	25,897	123,335	545,090
	East North Central....	1,926	102,142	404,039	84,169	167,733	299,298	655,879	23,785	108,935	488,717
	West North Central....	497	13,844	51,255	11,397	22,209	36,222	82,423	2,112	14,400	56,373
	South.....	2,515	105,990	300,102	91,663	185,501	225,308	494,604	17,250	85,503	309,239
	South Atlantic.....	1,330	68,105	191,424	59,160	119,374	144,811	320,699	10,173	55,726	206,559
	East South Central....	452	20,214	57,795	17,450	35,908	42,841	87,631	3,417	18,217	59,313
	West South Central....	733	17,670	50,883	15,053	30,218	37,655	86,273	3,660	11,560	43,367
	West.....	1,803	29,059	115,650	24,435	46,998	87,369	194,240	4,759	26,712	125,903
	Mountain.....	232	1,819	6,716	1,531	3,062	4,826	11,130	310	1,593	5,761
	Pacific.....	1,571	27,240	108,934	22,904	43,935	82,543	183,109	4,449	25,119	120,142
26	Pulp, paper and products:										
	United States, total.....	5,004	530,210	2,217,420	435,727	919,940	1,656,720	4,580,944	532,723	454,075	2,913,197
	Northeast.....	2,406	198,513	813,979	163,192	346,998	599,996	1,504,747	143,761	190,400	1,127,329
	New England.....	649	70,377	281,969	58,131	125,423	210,718	518,429	71,243	69,345	397,013
	Middle Atlantic.....	1,757	128,136	532,009	105,061	221,574	389,277	986,317	72,518	121,055	730,316
	North Central.....	1,414	168,974	731,184	136,414	288,374	533,613	1,432,218	108,068	148,804	942,615
	East North Central....	1,159	138,108	601,473	113,100	239,566	447,224	1,146,876	87,281	122,989	776,060
	West North Central....	255	30,866	129,711	23,314	48,808	86,389	285,342	20,786	25,815	166,555
	South.....	691	118,599	475,337	99,438	210,333	367,837	1,158,109	198,962	84,534	585,462
	South Atlantic.....	393	63,025	249,954	52,168	109,535	189,695	637,445	135,555	46,076	312,508
	East South Central....	133	25,821	103,053	22,037	46,670	81,527	234,465	40,121	16,087	116,864
	West South Central....	165	29,752	122,329	25,232	54,127	96,614	286,198	23,285	22,371	156,090
	West.....	493	44,122	196,919	36,682	74,234	155,272	485,869	81,931	30,337	257,791
	Mountain.....	28	1,548	6,495	1,284	2,659	4,910	17,565	2,928	782	4,758
	Pacific.....	465	42,573	190,424	35,398	71,575	150,362	468,304	79,003	29,555	253,033
27	Printing and publishing:										
	United States, total.....	32,531	804,386	3,625,133	499,666	961,465	2,115,344	6,264,558	236,897	715,120	4,248,773
	Northeast.....	10,989	314,491	1,463,040	191,003	365,381	813,954	2,627,404	78,917	295,132	1,836,940
	New England.....	2,151	59,986	248,709	39,674	75,219	153,198	396,781	17,115	54,169	281,179
	Middle Atlantic.....	8,838	254,505	1,214,331	151,329	290,162	660,755	2,230,623	61,801	240,963	1,555,761
	North Central.....	10,899	288,304	1,316,822	184,891	356,796	802,443	2,202,850	96,945	255,881	1,505,316
	East North Central....	7,329	218,091	1,028,416	141,218	274,406	636,091	1,712,835	73,998	195,263	1,169,861
	West North Central....	3,570	70,213	288,407	43,673	82,390	166,352	490,014	22,946	60,618	335,455
	South.....	6,262	121,645	480,352	76,462	152,487	286,265	820,467	36,953	99,185	518,678
	South Atlantic.....	2,870	61,941	249,179	38,170	74,912	143,862	416,094	17,703	49,335	262,272
	East South Central....	1,145	23,941	95,008	16,166	32,490	61,547	159,411	7,378	20,854	102,083
	West South Central....	2,247	35,762	136,163	22,126	45,084	80,855	244,960	11,872	28,996	154,323
	West.....	4,381	79,946	364,917	47,309	86,800	212,681	613,836	24,080	64,922	387,839
	Mountain.....	973	14,725	58,561	9,367	17,547	37,181	102,449	6,137	11,842	59,784
	Pacific.....	3,408	65,221	306,356	37,941	69,252	175,499	511,387	17,942	53,080	328,055
28	Chemicals and products:										
	United States, total.....	11,075	739,389	3,407,199	501,272	1,016,053	2,005,627	9,443,629	926,613	626,415	5,317,001
	Northeast.....	3,674	222,269	1,031,033	147,156	296,910	585,866	2,837,279	192,983	220,359	1,848,248
	New England.....	710	27,586	122,729	18,554	37,417	70,139	332,811	24,271	28,518	217,537
	Middle Atlantic.....	2,964	194,682	908,303	128,601	259,493	515,727	2,504,467	168,711	191,841	1,630,711
	North Central.....	3,232	206,719	973,439	139,272	280,826	567,736	2,693,493	231,566	174,834	1,672,359
	East North Central....	2,351	166,300	797,959	111,519	226,029	460,329	2,163,190	176,257	142,319	1,344,035
	West North Central....	881	40,419	175,480	27,753	54,796	107,406	530,303	55,308	32,515	328,324
	South.....	2,635	252,249	1,119,638	178,623	366,112	698,454	3,194,542	458,041	196,774	1,459,857
	South Atlantic.....	1,286	125,713	541,069	87,437	177,118	324,464	1,418,161	149,155	108,706	778,942
	East South Central....	515	65,328	288,814	47,235	96,956	183,758	730,644	72,194	45,975	291,949
	West South Central....	834	61,208	289,754	43,949	92,038	190,230	1,045,737	236,690	42,093	388,966
	West.....	1,534	58,150	283,088	36,221	72,203	153,570	718,313	44,022	34,448	336,537
	Mountain.....	218	13,988	67,500	8,131	16,573	34,270	158,860	11,967	3,864	29,059
	Pacific.....	1,316	44,162	215,588	28,089	55,630	119,299	559,453	32,055	30,584	307,478

See footnotes at end of table.

GENERAL SUMMARY

Table 6B.—GENERAL STATISTICS FOR OPERATING MANUFACTURING ESTABLISHMENTS FOR INDUSTRY GROUPS BY REGIONS AND DIVISIONS: 1954 AND 1947—Continued

(For explanation of column captions see Introduction)

Code	Major industry group, region and division ¹	1954								1947	
		Establishments, number	All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours ((1,000)	Wages (\$1,000)				
29	Petroleum and coal products:										
	United States, total.....	1,381	215,843	1,101,814	163,811	322,947	778,408	2,582,613	753,184	207,618	1,990,944
	Northeast.....	374	52,261	263,555	39,970	77,948	186,576	524,075	145,191	54,234	535,338
	New England.....	51	3,206	16,315	2,479	5,478	11,611	31,196	4,798	2,468	27,906
	Middle Atlantic.....	323	49,054	247,239	37,491	72,469	174,965	492,878	140,392	51,766	507,432
	North Central.....	424	58,925	299,586	45,509	90,922	216,556	727,011	183,528	56,340	500,923
	East North Central.....	321	49,520	253,830	38,406	76,515	184,144	621,713	157,692	47,841	425,121
	West North Central.....	103	9,404	45,756	7,102	14,406	32,412	105,298	25,836	8,499	75,802
	South.....	358	76,686	393,527	58,113	113,627	278,892	945,922	270,899	69,559	684,982
	South Atlantic.....	105	7,292	33,818	5,841	11,371	24,796	76,630	23,211	5,907	48,041
	East South Central.....	58	5,415	23,988	4,502	8,837	18,484	91,718	8,555	4,572	57,991
	West South Central.....	195	63,979	335,720	47,770	93,418	235,612	777,573	239,131	59,080	578,950
	West.....	225	27,970	145,144	20,217	40,450	96,382	385,604	153,565	27,485	269,701
	Mountain.....	64	7,009	35,311	5,224	10,428	25,193	102,381	21,542	5,470	52,093
	Pacific.....	161	20,961	109,833	14,992	30,021	71,188	283,223	132,022	22,015	217,608
30	Rubber products:										
	United States, total.....	1,406	246,526	1,059,337	196,238	377,414	775,499	1,903,702	128,431	258,237	1,299,491
	Northeast.....	504	81,573	334,441	65,081	128,855	242,936	611,049	37,694	86,046	435,043
	New England.....	201	44,551	179,989	35,709	71,125	131,092	324,141	17,970	45,249	224,544
	Middle Atlantic.....	303	37,021	154,451	29,371	57,730	111,844	286,907	19,723	40,797	210,499
	North Central.....	490	116,884	521,087	91,907	169,929	375,159	845,714	58,884	130,166	614,645
	East North Central.....	412	109,315	491,110	85,631	158,129	351,591	765,772	50,529	124,381	583,613
	West North Central.....	78	7,569	29,977	6,276	11,799	23,567	79,941	8,355	5,785	31,032
	South.....	181	26,014	103,997	21,896	43,367	82,852	262,813	13,542		
	South Atlantic.....	93	10,835	37,224	8,792	17,334	27,533	74,843	3,487		
	East South Central.....	47	11,586	50,130	9,987	19,416	41,625	131,437	6,790		
	West South Central.....	41	3,592	16,142	3,116	6,615	13,693	56,532	3,264	42,025	249,803
	West.....	231	22,054	99,811	17,352	35,263	74,551	184,126	18,310		
	Mountain.....	13	5,310	(D)	3,836	(D)	(D)	(D)	(D)		
	Pacific.....	218	16,744	(D)	13,516	(D)	(D)	(D)	(D)		
31	Leather and leather goods:										
	United States, total.....	4,845	356,578	1,027,314	321,161	586,857	833,694	1,637,417	28,053	383,264	1,533,028
	Northeast.....	3,342	213,410	622,094	192,515	351,624	503,556	928,888	14,103	219,590	920,956
	New England.....	1,161	110,090	321,419	99,076	177,057	258,004	477,162	7,190	109,177	453,849
	Middle Atlantic.....	2,181	103,319	300,674	93,439	174,566	245,551	451,725	6,912	110,413	467,107
	North Central.....	786	97,935	282,566	87,704	158,343	229,113	489,514	8,028	120,745	448,744
	East North Central.....	552	58,861	183,526	52,086	95,711	146,502	307,433	5,742	75,350	319,969
	West North Central.....	234	39,073	99,040	35,617	62,632	82,610	182,081	2,286	45,395	128,775
	South.....	392	36,461	89,993	33,530	62,150	76,939	161,947	3,458	35,090	129,967
	South Atlantic.....	168	15,099	40,958	13,535	25,610	33,342	62,827	2,257	17,686	70,128
	East South Central.....	94	14,113	33,919	13,229	24,749	30,303	71,787	714	14,311	50,496
	West South Central.....	130	7,248	15,116	6,766	11,791	13,292	27,331	486	3,093	9,343
	West.....	325	8,771	32,660	7,410	14,738	24,084	57,067	2,463	7,839	33,361
	Mountain.....	47	1,983	8,719	1,602	3,723	6,390	18,507	613	1,319	4,811
	Pacific.....	278	6,788	23,941	5,807	11,015	17,694	38,559	1,849	6,520	28,550
32	Stone, clay, and glass products:										
	United States, total.....	11,162	491,814	1,938,085	412,031	827,012	1,496,029	3,821,659	300,647	461,037	2,298,521
	Northeast.....	3,094	158,967	648,875	130,383	261,053	488,674	1,193,085	87,204	160,926	793,490
	New England.....	674	23,734	95,321	18,361	37,173	66,957	160,043	8,692	21,569	108,573
	Middle Atlantic.....	2,420	135,232	553,554	112,022	223,879	421,717	1,033,041	78,512	139,357	684,917
	North Central.....	3,669	175,674	723,627	147,864	299,959	567,717	1,433,606	112,005	159,926	838,231
	East North Central.....	2,736	143,385	593,418	121,272	243,369	466,980	1,147,760	91,632	131,877	689,435
	West North Central.....	933	32,289	130,208	26,592	56,590	100,737	285,846	20,373	28,049	148,796
	South.....	2,768	111,373	375,001	96,042	191,101	294,942	784,926	61,496	102,056	456,552
	South Atlantic.....	1,477	61,378	205,023	53,274	104,005	162,564	385,248	28,511	60,530	259,044
	East South Central.....	603	22,899	73,865	19,774	38,830	57,618	157,902	14,191	20,640	89,625
	West South Central.....	688	27,096	96,113	22,992	48,265	74,759	241,775	18,793	20,886	107,883
	West.....	1,631	45,799	190,581	37,740	74,898	144,695	410,040	39,941	38,129	210,248
	Mountain.....	356	8,085	31,563	6,673	13,700	24,036	75,671	5,808	6,345	31,891
	Pacific.....	1,275	37,714	159,018	31,067	61,197	120,658	334,368	34,132	31,784	178,357
33	Primary metal industries:										
	United States, total.....	5,838	1,117,059	5,097,466	938,511	1,812,027	3,985,548	9,372,910	831,095	1,158,158	5,733,028
	Northeast.....	1,951	403,595	1,811,639	334,170	634,947	1,389,251	3,084,079	223,689	440,590	2,094,762
	New England.....	537	54,207	238,927	44,699	88,464	179,821	419,170	23,922	62,029	289,386
	Middle Atlantic.....	1,414	349,387	1,572,712	289,470	546,482	1,209,429	2,664,909	199,766	378,561	1,805,376
	North Central.....	2,438	479,242	2,242,998	405,103	783,082	1,761,369	4,055,084	406,026	503,783	2,529,964
	East North Central.....	2,132	454,065	2,136,134	383,537	741,034	1,678,048	3,872,786	395,673	477,781	2,414,950
	West North Central.....	306	25,177	106,864	21,566	42,047	83,320	182,297	10,353	26,002	115,014
	South.....	654	152,681	671,573	130,848	258,632	541,673	1,417,760	142,608	145,989	706,347
	South Atlantic.....	251	64,447	292,481	54,669	107,315	233,926	639,486	47,722	64,737	322,532
	East South Central.....	174	55,546	235,100	47,869	93,188	190,031	470,016	63,251	62,474	287,693
	West South Central.....	229	32,687	143,991	28,309	58,128	117,715	308,258	31,634	18,778	96,122
	West.....	795	81,540	371,254	68,389	135,365	293,254	815,985	58,771	67,796	401,951
	Mountain.....	101	27,045	117,915	22,843	44,338	94,992	264,983	18,822	23,094	134,273
	Pacific.....	694	54,495	253,339	45,546	91,026	198,262	551,002	39,949	44,702	267,682

See footnotes at end of table.

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Table 6B.—GENERAL STATISTICS FOR OPERATING MANUFACTURING ESTABLISHMENTS FOR INDUSTRY GROUPS BY REGIONS AND DIVISIONS: 1954 AND 1947—Continued

(For explanation of column captions see Introduction)

Code	Major industry group, region and division ¹	1954								1947	
		Establishments, number	All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours ((1,000)	Wages (\$1,000)				
34	Fabricated metal products:										
	United States, total.....	22,516	1,019,406	4,397,337	821,172	1,652,366	3,174,186	7,596,275	432,491	973,174	4,920,304
	Northeast.....	8,389	347,655	1,453,951	282,327	566,197	1,055,043	2,497,157	115,078	355,314	1,714,319
	New England.....	2,149	92,743	369,182	75,635	152,534	268,314	624,379	23,480	109,005	506,235
	Middle Atlantic.....	6,240	254,911	1,084,768	206,692	413,663	786,728	1,872,778	91,598	246,309	1,208,084
	North Central.....	8,269	456,602	2,060,434	366,543	741,458	1,482,442	3,514,009	220,535	452,621	2,396,083
	East North Central....	7,016	407,205	1,852,995	327,917	663,734	1,340,183	3,145,844	201,143	407,820	2,164,248
	West North Central....	1,253	49,396	207,439	38,626	77,724	142,259	368,164	19,392	44,801	231,835
	South.....	2,632	125,245	476,425	101,142	203,798	345,326	879,688	51,488	100,388	457,279
	South Atlantic.....	1,142	53,194	200,312	43,236	85,907	146,527	376,930	20,281	45,175	207,130
	East South Central....	543	39,946	147,684	33,119	66,058	111,886	276,725	17,609	33,911	144,419
	West South Central....	947	32,105	128,427	24,786	51,832	86,912	226,032	13,596	21,302	105,730
	West.....	3,226	89,902	406,525	71,159	140,912	291,374	705,421	45,389	64,851	352,623
	Mountain.....	329	6,914	28,154	5,207	10,457	19,308	45,281	3,132	4,361	22,460
	Pacific.....	2,897	82,987	378,370	65,951	130,454	272,065	660,139	42,256	60,490	330,163
35	Machinery, except electrical:										
	United States, total.....	25,601	1,541,675	7,190,563	1,171,323	2,369,610	4,979,972	12,338,923	713,808	1,552,135	7,833,970
	Northeast.....	8,092	519,921	2,354,097	390,610	787,144	1,614,861	4,021,678	198,970	541,891	2,619,783
	New England.....	2,425	179,324	784,000	137,803	277,729	556,322	1,312,335	59,795	201,583	930,555
	Middle Atlantic.....	5,667	340,596	1,570,097	252,806	509,415	1,058,538	2,709,343	139,174	340,308	1,689,228
	North Central.....	11,055	820,689	3,947,936	628,756	1,272,446	2,770,084	6,729,683	381,884	855,981	4,450,826
	East North Central....	9,419	728,526	3,555,422	559,099	1,133,632	2,503,024	6,046,137	341,275	764,931	4,010,107
	West North Central....	1,636	92,163	392,514	69,657	138,814	267,059	683,546	40,608	91,050	440,719
	South.....	2,693	115,680	484,389	88,004	180,285	320,467	881,940	101,548	86,642	404,314
	South Atlantic.....	1,043	39,390	155,820	30,104	61,146	100,862	243,161	17,528	31,231	134,846
	East South Central....	442	29,911	124,825	22,972	45,979	84,524	224,179	61,564	23,692	94,514
	West South Central....	1,208	46,378	203,743	34,927	73,159	135,080	414,599	22,455	31,719	174,954
	West.....	3,761	85,384	404,139	63,951	129,734	274,559	705,621	31,404	67,621	359,047
	Mountain.....	322	7,857	32,621	5,900	11,847	21,535	54,989	2,968	6,075	29,548
	Pacific.....	3,439	77,527	371,518	58,051	117,886	253,023	650,631	28,436	61,546	329,499
36	Electrical machinery:										
	United States, total.....	5,758	959,126	3,950,994	722,443	1,422,339	2,645,588	7,403,134	340,677	796,357	3,860,235
	Northeast.....	2,547	453,564	1,857,063	336,608	663,839	1,219,615	3,552,131	141,072	384,146	1,810,670
	New England.....	603	120,847	457,698	91,587	185,454	306,355	885,454	33,131	96,048	451,237
	Middle Atlantic.....	1,944	332,716	1,399,364	245,020	478,384	913,259	2,666,677	107,940	288,098	1,359,433
	North Central.....	1,940	392,338	1,645,420	302,932	592,948	1,131,576	3,003,371	134,877	362,638	1,795,714
	East North Central....	1,668	351,336	1,481,974	271,902	531,508	1,021,827	2,719,985	124,115	328,189	1,640,355
	West North Central....	272	41,001	163,445	31,029	61,439	109,748	283,386	10,761	34,449	155,359
	South.....	443	57,382	212,789	42,970	84,194	137,337	415,575	44,084	29,908	136,498
	South Atlantic.....	229	33,094	128,825	22,875	44,654	76,231	240,027	32,606	20,866	94,726
	East South Central....	100	16,484	55,336	14,040	26,957	41,792	115,326	8,620	6,742	27,663
	West South Central....	114	7,803	28,628	6,054	12,582	19,313	60,221	2,856	2,300	14,109
	West.....	828	55,841	235,721	39,932	81,357	157,060	432,054	20,643	19,665	117,353
	Mountain.....	36	1,134	3,732	954	1,816	2,762	6,258	370	507	1,864
	Pacific.....	792	54,707	231,989	38,978	79,540	154,298	425,796	20,273	19,158	115,489
37	Transportation equipment:										
	United States, total.....	5,348	1,704,572	8,295,773	1,327,078	2,714,603	6,003,250	13,925,983	924,646	1,174,498	5,841,722
	Northeast.....	1,296	355,997	1,734,003	273,457	562,661	1,234,971	2,874,418	152,694	250,297	1,151,806
	New England.....	414	92,301	428,176	71,550	147,232	309,054	686,722	22,359	51,580	206,974
	Middle Atlantic.....	882	263,696	1,305,827	201,907	415,428	925,916	2,187,696	130,335	198,717	944,832
	North Central.....	1,832	823,148	4,012,880	660,257	1,352,102	3,038,395	7,124,703	662,569	669,319	3,516,603
	East North Central....	1,507	709,928	3,488,010	574,751	1,173,026	2,659,134	6,122,192	641,511	628,064	3,272,893
	West North Central....	325	113,220	524,870	85,505	179,076	379,260	1,002,511	21,058	41,255	243,710
	South.....	931	199,753	914,169	158,574	315,565	667,261	1,438,282	46,593	116,666	524,338
	South Atlantic.....	465	97,583	452,574	77,329	156,703	331,203	800,181	22,974	63,631	286,812
	East South Central....	126	26,047	106,873	21,717	40,172	80,978	173,411	3,985	21,285	104,804
	West South Central....	340	76,123	354,721	59,526	118,690	255,078	464,688	19,633	31,750	132,722
	West.....	1,289	325,672	1,634,719	234,789	484,273	1,062,622	2,488,579	62,790	138,216	648,975
	Mountain.....	62	7,394	36,007	6,201	13,172	28,781	49,952	1,023	1,114	5,229
	Pacific.....	1,227	318,278	1,598,712	228,587	471,101	1,033,840	2,438,626	61,767	137,102	643,746
38	Instruments and related products:										
	United States, total.....	3,142	272,586	1,200,322	195,597	391,403	759,459	2,128,706	94,008	244,872	1,140,499
	Northeast.....	1,512	167,860	760,842	119,969	238,369	477,436	1,335,411	65,617	162,881	772,465
	New England.....	302	36,599	143,394	27,563	54,637	94,275	256,254	10,887	37,212	171,358
	Middle Atlantic.....	1,210	131,261	617,448	92,406	183,732	383,161	1,079,156	54,730	125,669	601,107
	North Central.....	840	78,257	330,325	55,721	113,512	209,492	598,948	16,562	65,862	302,646
	East North Central....	688	60,938	256,694	44,096	89,934	166,748	457,366	12,484	(D)	(D)
	West North Central....	152	17,319	73,631	11,625	23,577	42,744	141,582	4,077	(D)	(D)
	South.....	294	11,307	40,503	8,999	17,732	28,049	69,728	2,638	8,448	30,903
	South Atlantic.....	135	5,121	17,606	3,963	7,762	11,407	27,147	956	2,949	9,585
	East South Central....	39	3,390	12,654	2,827	5,588	9,872	19,672	632	3,015	13,319
	West South Central....	120	2,795	10,242	2,209	4,381	6,769	22,908	1,049	2,484	7,999
	West.....	496	15,161	68,651	10,906	21,788	44,480	124,618	9,190	7,681	34,485
	Mountain.....	58	863	3,049	644	1,152	1,984	5,175	241	399	1,902
	Pacific.....	438	14,297	65,602	10,262	20,635	42,496	119,443	8,948	7,282	32,583

See footnotes at end of table.

GENERAL SUMMARY

Table 6B.—GENERAL STATISTICS FOR OPERATING MANUFACTURING ESTABLISHMENTS FOR INDUSTRY GROUPS BY REGIONS AND DIVISIONS: 1954 AND 1947—Continued
(For explanation of column captions see Introduction)

Code	Major industry group, region and division ¹	1954								1947	
		Establishments, number	All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours ((1,000)	Wages (\$1,000)				
39	Miscellaneous manufactures ⁵ :										
	United States, total.....	² 17,010	695,917	2,658,182	555,746	1,089,229	1,861,873	4,473,050	176,036	463,390	2,066,259
	Northeast.....	9,246	367,040	1,361,525	296,058	576,835	952,955	2,279,833	80,251	285,848	1,306,326
	New England.....	1,980	119,031	416,749	98,657	194,082	304,940	683,749	26,901	107,000	467,913
	Middle Atlantic.....	7,266	248,008	944,775	197,401	382,751	648,013	1,596,084	53,348	178,848	838,413
	North Central.....	4,015	211,200	848,807	167,473	331,417	601,290	1,455,539	53,267	132,915	587,470
	East North Central....	3,145	154,036	(D)	121,064	(D)	(D)	(D)	(D)	110,150	493,383
	West North Central....	870	57,163	(D)	46,408	(D)	(D)	(D)	(D)	22,765	94,087
	South.....	1,708	61,616	211,769	49,606	98,378	147,176	333,133	29,167	26,162	87,979
	South Atlantic.....	815	27,262	91,131	21,207	42,022	59,238	148,732	7,637	15,512	50,461
	East South Central....	302	14,204	49,632	11,935	23,169	36,092	77,098	8,204	5,285	16,211
	West South Central....	591	20,149	71,004	16,462	33,185	51,844	107,301	13,323	5,365	21,307
	West.....	2,041	56,059	236,079	42,605	82,597	160,451	404,543	13,348	18,465	84,484
	Mountain.....	287	5,049	(D)	4,009	(D)	(D)	(D)	(D)	(D)	(D)
	Pacific.....	1,754	51,009	(D)	38,595	(D)	(D)	(D)	(D)	(D)	(D)

Note: Detailed figures may not add to the totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies.

NA Not available.

¹For definitions of the divisions, see table 4A.²The 1954 and 1947 "All industries" totals are not strictly comparable because of differences in coverage between the two years in major groups 20 and 24. (See footnote 4.)³The differences in coverage of establishments in the logging and fluid milk industries significantly affected the comparability of the "All industries" total, for four of the nine geographic divisions. Consequently 1947 "All manufacturing" totals are not shown in the table for these divisions. In the following table, comparable employment and value added by manufactures figures (excluding the establishments in the milk and logging industries) are shown for these divisions:

Division	1954		1947	
	All employees, number	Value added by manufacture (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
West South Central.....	688,183	5,549,166	546,083	3,008,043
Mountain.....	174,472	1,408,032	136,852	762,599
Pacific.....	1,298,588	10,723,201	906,862	5,496,961

⁴The 1954 Census coverage of establishments in Major Industry Group 20, Food and Kindred Products, and Major Industry Group 24, Lumber and Wood Products, are not comparable with the corresponding group figures published in 1947. In 1947, the Standard Industrial Classification of sub-group 202, Dairy Products differed from that used in 1954 chiefly in that the Industries 2026, Fluid Milk, and 2027, Fluid Milk and Other Products, were not included within the scope of manufacturing. Also, Logging Camps and Contractors, Industry 2411, were not included in the 1947 Census of Manufactures. They were, however, included in the 1954 Census (see Introduction for complete explanation). Comparable employment and value added by manufacture figures for the United States by Divisions for 1954 and 1947 for the Food and Kindred Products Industries (excluding Fluid Milk, Industry 2066, and Fluid Milk and Other Products, Industry 2027) and for the Wood Products group (excluding Logging Camps and Contractors, Industry 2411, are shown below:

Code	Area	1954		1947	
		All employees, number	Value added by manufacture (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
	UNITED STATES				
20	Food and kindred products, except Sub-group 202, Dairy Products.....	1,363,773	11,143,480	1,349,100	8,427,804
24	Lumber & wood prod., exc. Ind. 2411, Logging Camps & Contractors.....	570,426	2,798,479	641,799	2,520,402
	NEW ENGLAND				
20	Food and kindred products, except Sub-group 202, Dairy Products.....	64,000	412,000	66,361	339,023
24	Lumber & wood prod., exc. Ind. 2411, Logging Camps & Contractors.....	28,446	115,463	33,574	114,201
	MIDDLE ATLANTIC				
20	Food and kindred products, except Sub-group 202, Dairy Products.....	271,000	2,394,000	272,963	1,822,069
24	Lumber & wood prod., exc. Ind. 2411, Logging Camps & Contractors.....	35,869	173,892	37,335	142,888
	EAST NORTH CENTRAL				
20	Food and kindred products, except Sub-group 202, Dairy Products.....	317,648	2,821,551	321,150	2,161,720
24	Lumber & wood prod., exc. Ind. 2411, Logging Camps & Contractors.....	62,184	327,681	66,485	273,872
	WEST NORTH CENTRAL				
20	Food and kindred products, except Sub-group 202, Dairy Products.....	180,153	1,410,525	189,883	1,116,249
24	Lumber & wood prod., exc. Ind. 2411, Logging Camps & Contractors.....	21,481	110,048	21,054	78,517
	SOUTH ATLANTIC				
20	Food and kindred products, except Sub-group 202, Dairy Products.....	157,765	1,024,111	135,788	657,604
24	Lumber & wood prod., exc. Ind. 2411, Logging Camps & Contractors.....	120,464	387,774	139,700	383,814
	EAST SOUTH CENTRAL				
20	Food and kindred products, except Sub-group 202, Dairy Products.....	65,548	529,040	62,366	475,749
24	Lumber & wood prod., exc. Ind. 2411, Logging Camps & Contractors.....	71,056	244,865	98,747	285,087
	WEST SOUTH CENTRAL				
20	Food and kindred products, except Sub-group 202, Dairy Products.....	108,111	769,539	106,069	571,524
24	Lumber & wood prod., exc. Ind. 2411, Logging Camps & Contractors.....	57,732	204,268	90,924	272,233
	MOUNTAIN				
20	Food and kindred products, except Sub-group 202, Dairy Products.....	35,471	254,765	36,958	222,418
24	Lumber & wood prod., exc. Ind. 2411, Logging Camps & Contractors.....	23,346	145,403	20,930	100,538
	PACIFIC				
20	Food and kindred products, except Sub-group 202, Dairy Products.....	163,340	1,527,687	157,562	1,061,448
24	Lumber & wood prod., exc. Ind. 2411, Logging Camps & Contractors.....	149,849	1,089,085	133,050	869,252

⁵Includes privately owned and/or operated establishments classified in Major Industry Group 19, Ordnance and Accessories. (Establishments which are Government-owned and operated are not included.)

Chapter II.—Employment and Payrolls

Table 1.—NUMBER OF MANUFACTURING EMPLOYEES BY FUNCTIONAL CLASS, 1954 AND EARLIER YEARS
(For explanation of stub items, see INTRODUCTION)

Class of employees	1954 ¹	1953 ²	1952 ²	1951 ²	1950 ²	1949 ²
All employees, including administrative and auxiliary units, total.....	16,125,550	17,093,004	16,061,049	15,638,019	14,769,931	13,880,231
Operating manufacturing establishments ³	15,651,294	16,693,043	15,732,669	15,309,639	14,466,951	13,566,847
Production workers.....	12,373,030	13,500,934	12,706,032	12,508,914	11,778,803	11,016,301
Force-account construction workers ⁴	51,780	3,192,109	3,026,637	2,800,725	2,688,148	2,550,546
Administrative, supervisory, sales technical, office and all other.....	3,226,484					
Administrative and auxiliary units ⁵	474,256	399,961	328,380	328,380	302,980	313,384
	1947	1939	1929	1919	1909	1899
All employees, including administrative and auxiliary units, total.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Operating manufacturing establishments ³	14,313,534	10,414,764	9,661,629	9,836,811	6,850,929	4,688,918
Production workers.....	11,930,670	8,678,408	8,371,592	8,464,916	6,100,599	4,340,820
Force-account construction workers ⁴	39,753	70,887	(NA)	(NA)	(NA)	(NA)
Administrative, supervisory, sales technical, office and all other.....	2,343,111	1,665,469	1,290,037	1,371,895	750,330	348,098
Administrative and auxiliary units ⁵	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)

NA Not available.

¹The 1954 figures include data for establishments engaged in the processing and distribution of fluid milk, Industry Group 202, Dairy Products. These establishments were not included in the figures for the Annual Survey years, 1949-1953, or earlier Census years. In addition, the 1954 Census and the 1949-1953 Annual Survey years include data for Logging Camps and Contractors, Industry 2411, which were not included within the scope of the 1947 Census. See footnote 2 to Table 2 for comparable 1947-1954 totals.

²The employment figures for operating manufacturing establishments for 1949-1953 are estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volume for this period.

³Figures for 1954 and 1947 include employment at all establishments employing one or more persons at any time during the year; for 1929 and 1939, those having products value at \$5,000 or more; and for 1899-1919, those having products valued at \$500 or more. The number of employees at operating manufacturing establishments represents, for 1954, an average based on employment data reported for 4 selected pay periods (i.e., mid-month employment in March, May, August and November) in all but seasonal industries; for 1947 an average of 12 monthly figures; for 1939 and earlier years, it represents the sum of the average number of production workers for the year plus the number of nonproduction workers reported for one payroll period (usually in October).

⁴The questionnaire for 1954, 1947 and 1939 called for the total number of employees on the payrolls of manufacturing establishments engaged in force-account construction work. It is not known to what extent data for such employees are included in the figures shown for earlier years.

⁵The 1954 figures were collected in the Census of Manufactures. The 1949-1953 figures were compiled chiefly from Bureau of Old-Age and Survivors Insurance records and are not strictly comparable with the 1954 data. The 1951 data are shown for 1952 since data for auxiliary and administrative units were not available for 1952.

Table 2.—TOTAL NUMBER OF EMPLOYEES AND PAYROLLS,

(For explanation of column

No.	Major industry group	1954		1953 ¹		1952 ¹	
		Employees, number	Payroll (\$1,000)	Employees, number	Payroll (\$1,000)	Employees, number	Payroll (\$1,000)
	All manufacturing establishments including administrative and auxiliary units, total.....	16,125,550	65,976,667	17,093,004	68,590,422	16,061,049	61,140,646
	Operating manufacturing establishments ²	15,651,294	62,993,321	16,693,043	66,492,506	15,732,669	59,597,982
20	Food and kindred products ²	1,647,204	6,201,500	(²)	(²)	(²)	(²)
21	Tobacco manufactures.....	94,863	259,689	95,442	253,411	93,175	240,732
22	Textile mill products.....	1,037,440	3,032,490	1,158,471	3,455,295	1,134,680	3,342,647
23	Apparel and related products.....	1,190,064	3,201,795	1,227,161	3,357,941	1,142,655	3,079,050
24	Lumber and wood products ²	645,936	1,933,523	719,900	2,086,794	742,705	2,071,546
25	Furniture and fixtures.....	340,694	1,197,376	360,842	1,259,319	331,661	1,122,754
26	Pulp, paper and products.....	530,210	2,217,420	533,312	2,180,228	482,399	1,877,489
27	Printing and publishing.....	804,386	3,625,133	760,332	3,386,515	772,801	3,267,367
28	Chemicals and products.....	739,389	3,407,199	768,425	3,400,132	739,437	3,116,834
29	Petroleum and coal products.....	215,843	1,101,814	229,294	1,139,577	220,227	1,035,721
30	Rubber products.....	246,526	1,059,337	269,780	1,140,019	255,079	1,042,166
31	Leather and leather goods.....	356,578	1,027,314	375,364	1,098,806	361,373	1,015,535
32	Stone, clay, and glass products.....	491,814	1,938,085	506,439	1,948,876	510,353	1,841,507
33	Primary metal products.....	1,117,059	5,097,466	1,287,765	6,001,743	1,240,337	5,214,580
34	Fabricated metal products.....	1,019,406	4,397,337	1,117,600	4,765,443	1,007,589	4,124,226
35	Machinery, except electrical.....	1,541,675	7,190,563	1,691,235	7,875,812	1,650,772	7,379,879
36	Electrical machinery.....	959,126	3,950,994	1,095,852	4,424,751	957,251	3,750,218
37	Transportation equipment.....	1,704,572	8,295,773	1,911,706	8,986,838	1,650,203	7,423,348
38	Instruments and related products.....	272,586	1,200,322	285,469	1,232,467	278,531	1,179,955
39	Miscellaneous manufactures and ordnance and accessories ³	695,917	2,658,182	843,544	3,232,056	681,858	2,374,738
--	Administrative auxiliary units ⁴	474,256	2,983,346	399,961	2,097,916	328,380	1,542,664

NA Not available.

¹The employment figures for operating manufacturing establishments for 1949-1953 are estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volume for this period.

²The 1954 figures are not comparable with the data shown for 1947 through 1953 because of differences in coverage of Major Groups 20 and 24. The 1954 figures include data for establishments engaged in the processing and distribution of fluid milk, Industry Group 202, Dairy Products. These establishments were not included in the figures for the Annual Survey years, 1949-1953, and the 1947 Census. In addition, the 1954 Census and Annual Survey years include data for Logging Camps and Contractors, Industry 2411, which were not included within the scope of the 1947 Census. In the special comparative table below, data for these industries have been subtracted from the appropriate totals:

No.	Item	1954		1953		1952	
		Employees, number	Payroll (\$1,000)	Employees, number	Payroll (\$1,000)	Employees, number	Payroll (\$1,000)
	Operating manufacturing establishments except Subgroups 202 and 2411.....	15,292,353	61,696,405	16,513,733	65,918,957	15,562,599	59,084,644
20	Food and kindred products except Subgroup 202, Dairy products.....	1,363,773	5,115,209	1,356,730	4,925,642	1,383,376	4,792,267
24	Lumber and wood products except Industry 2411, Logging camps and contractors.....	570,426	1,722,898	638,970	1,854,088	668,842	1,863,631

EMPLOYMENT AND PAYROLLS

202-3

BY MAJOR INDUSTRY GROUP: 1947-1954

captions see INTRODUCTION)

1951 ¹		1950 ¹		1949 ¹		1947		No.
Employees, number	Payroll (\$1,000)	Employees, number	Payroll (\$1,000)	Employees, number	Payroll (\$1,000)	Employees, number	Payroll (\$1,000)	
15,638,019	56,284,651	14,769,931	47,893,474	13,880,231	42,752,032	(NA)	(NA)	
15,309,639	54,741,987	14,466,951	46,642,790	13,566,847	41,480,916	14,313,534	39,743,154	
(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	20
93,753	230,179	92,561	212,536	100,729	207,780	111,782	205,838	21
1,195,354	3,438,029	1,245,152	3,363,486	1,169,812	2,973,327	1,232,293	2,832,706	22
1,123,171	2,955,023	1,150,624	2,765,215	1,160,808	2,717,148	1,081,670	2,525,183	23
770,493	2,014,894	750,499	1,748,234	649,144	1,421,649	(²)	(²)	24
336,064	1,077,015	345,912	1,012,877	309,817	862,247	316,273	806,948	25
494,558	1,822,636	477,752	1,607,277	447,230	1,419,675	454,075	1,294,535	26
765,318	3,068,288	762,716	2,908,857	756,233	2,743,997	715,120	2,276,262	27
702,906	2,784,370	642,469	2,341,957	612,030	2,092,082	626,418	1,898,472	28
218,142	970,072	207,510	850,261	208,397	820,223	207,618	725,983	29
252,792	962,586	238,671	837,019	222,368	713,385	258,237	781,378	30
353,770	944,582	385,123	949,271	375,246	891,734	383,264	873,746	31
529,069	1,827,834	490,568	1,529,473	453,192	1,323,196	461,037	1,206,903	32
1,244,210	5,137,288	1,129,040	4,157,451	1,016,289	3,464,563	1,158,158	3,601,791	33
1,035,246	3,988,317	988,783	3,404,061	872,229	2,883,510	973,174	2,833,684	34
1,603,987	6,729,242	1,367,882	5,063,008	1,295,091	4,559,083	1,552,135	4,830,125	35
876,551	3,193,256	765,613	2,532,870	663,147	2,144,778	796,357	2,258,657	36
1,468,509	6,066,748	1,218,417	4,679,459	1,139,983	4,098,421	1,174,498	3,694,932	37
253,081	1,001,301	226,375	812,468	204,823	682,733	244,872	706,055	38
519,105	1,711,249	488,324	1,452,037	447,260	1,262,735	463,390	1,205,212	39
328,380	1,542,664	302,980	1,250,684	313,384	1,271,116	(NA)	(NA)	--

Footnote 2--Continued

No.	Item	1951		1950		1949		1947	
		Employees, number	Payroll (\$1,000)	Employees, number	Payroll (\$1,000)	Employees, number	Payroll (\$1,000)	Employees, number	Payroll (\$1,000)
	Operating manufacturing establishments except Subgroups 202 and 2411.....	15,131,344	54,236,957	14,325,561	46,281,084	13,431,469	41,129,883	14,220,841	39,517,842
20	Food and kindred products except Subgroup 202, Dairy products.....	1,374,062	4,525,672	1,388,163	4,136,630	1,366,377	3,933,927	1,368,671	3,607,475
24	Lumber and wood products except Industry 2411, Logging camps and contractors.....	691,696	1,803,270	713,906	1,664,871	610,408	1,335,339	641,799	1,351,957

³Includes privately owned and/or operated establishments classified in Major Industry Group 19, Ordnance and Accessories. Establishments which are Government-owned and operated are not included.

⁴The 1954 figures were collected in the Census of Manufactures. The 1949-1953 figures were compiled chiefly from Bureau of Old-Age and Survivors Insurance records and are not strictly comparable with the 1954 data. The 1951 data are shown for 1952 since data for auxiliary and administrative units were not available for 1952.

Table 3.—PROPRIETORS AND PARTNERS, EMPLOYMENT, PAYROLLS, AND

(For explanation of column

Code No.	Industry and industry group	1954				
		Number of proprietors and partners	All employees			
			Number	Payroll (\$1,000)	Employment in 4 selected months	
					March	May
	All manufacturing establishments, including administrative and auxiliary units, total.....	(NA)	16,125,550	65,976,667	(NA)	(NA)
	Operating manufacturing establishments.....	197,850	15,651,294	62,993,321	15,761,223	15,482,096
20	Food and kindred products.....	30,738	1,647,204	6,201,500	1,554,420	1,591,702
201	Meat products.....	4,180	311,366	1,234,617	304,203	301,869
2011	Meat packing plants.....	2,021	220,194	942,970	218,833	214,133
2013	Prepared meats.....	990	44,998	186,939	44,380	43,899
2015	Poultry dressing plants.....	1,169	246,173	104,706	40,990	43,837
202	Dairy products.....	8,682	283,431	1,086,291	275,372	287,418
2021	Creamery butter.....	431	21,019	65,601	20,656	21,519
2022	Natural cheese.....	1,051	13,914	42,363	13,547	15,018
2023	Concentrated milk.....	66	13,310	50,513	12,868	14,038
2024	Ice cream and ices.....	1,072	36,488	134,171	33,625	37,979
2025	Special dairy products.....	61	7,300	26,595	7,169	7,226
2026	Fluid milk.....	1,873	14,086	48,085	13,852	14,058
2027	Fluid milk and other products.....	4,128	177,311	718,960	173,655	177,580
203	Canned and frozen foods.....	2,051	199,238	573,057	142,304	159,221
2031	Canned seafood.....	134	215,131	37,062	11,636	15,462
2032	Cured fish.....	99	21,726	5,709	1,665	1,982
2033	Canned fruits and vegetables.....	909	2119,836	354,746	78,379	87,383
2034	Dehydrated fruits and vegetables.....	92	7,011	22,026	5,920	5,231
2035	Pickles and sauces.....	493	221,895	67,084	18,148	19,813
2036	Packaged seafood.....	245	212,200	27,190	11,643	9,845
2037	Frozen fruits and vegetables.....	79	221,436	59,238	14,913	19,505
204	Grain mill products.....	2,257	109,944	434,858	107,065	109,139
2041	Flour and meal.....	555	28,969	119,844	28,673	28,091
2042	Prepared animal feeds.....	1,606	59,890	225,199	57,870	60,755
2043	Cereal breakfast foods.....	6	11,534	51,002	11,491	11,506
2044	Rice milling.....	28	23,964	13,367	3,615	3,391
2045	Flour mixes.....	62	5,585	25,446	5,416	5,396
205	Bakery products.....	5,745	291,100	1,124,426	288,103	290,143
2051	Bread and related products.....	5,540	246,337	973,546	243,455	245,499
2052	Biscuit and crackers.....	205	44,763	150,880	44,648	44,644
206	Sugar.....	21	30,166	117,834	24,509	25,796
2061	Raw cane sugar.....	21	23,078	8,949	2,523	2,362
2062	Cane-sugar refining.....	...	216,068	66,431	16,266	16,185
2063	Beet sugar.....	...	211,019	42,453	5,720	7,249
207	Candy and related products.....	1,078	80,425	254,988	78,537	72,950
2071	Confectionery products.....	1,074	66,799	201,706	64,770	59,856
2072	Chocolate and cocoa products.....	3	8,465	33,133	8,673	8,049
2073	Chewing gum.....	1	5,161	20,147	5,094	5,045
208	Beverages.....	3,334	202,795	867,680	194,487	203,857
2081	Bottled soft drinks.....	3,166	91,616	319,879	86,906	92,192
2082	Beer and ale.....	13	81,346	420,546	78,511	82,378
2083	Malt.....	5	2,603	14,627	2,630	2,642
2084	Wines and brandy.....	135	25,724	23,258	5,623	5,322
2085	Distilled liquor.....	15	221,505	89,367	20,817	21,323
209	Miscellaneous foods.....	3,390	138,735	507,745	139,840	141,309
2091	Leavening compounds.....	9	2,685	12,246	2,706	2,712
2092	Shortening and cooking oils.....	27	29,398	42,414	9,514	9,330
2093	Margarine.....	2	2,626	10,463	2,669	2,644
2094	Corn wet milling.....	24	13,565	60,030	13,531	13,458
2095	Flavorings.....	231	10,593	45,060	10,724	10,842
2097	Manufactured ice.....	1,203	20,854	61,811	18,272	21,316
2098	Macaroni and spaghetti.....	183	7,058	24,278	7,275	6,801
2099	Food preparations, n.e.c.....	1,711	271,952	251,440	75,149	74,206
21	Tobacco manufactures.....	376	94,863	259,689	88,252	85,240
2111	Cigarettes.....	...	29,987	103,779	29,414	29,191
2121	Cigars.....	323	238,494	89,259	38,354	38,045
2131	Chewing and smoking tobacco.....	33	27,535	23,372	7,619	7,454
2141	Tobacco stemming and redrying.....	20	218,846	43,278	12,865	10,550
22	Textile mill products.....	3,060	1,037,440	3,032,490	1,038,813	1,024,969
221	Woolen and worsted manufactures.....	126	91,535	305,766	89,319	91,366
2211	Scouring and combing plants.....	6	7,013	24,300	6,682	7,155
2212	Yarn mills, wool, except carpet.....	37	17,840	51,730	17,404	18,154
2213	Woolen and worsted fabrics.....	71	62,466	214,246	61,038	61,785
2216	Finishing wool textiles.....	12	4,215	15,489	4,195	4,272

See footnotes at end of table.

MAN-HOURS, FOR INDUSTRY GROUPS AND FOR INDUSTRIES: 1954 AND 1947

captions, see INTRODUCTION)

1954—Continued							1947, all employees		Code No.
All employees—Continued		Production workers			Force account construction workers, number	Administrative, supervisory, sales, technical, office and all other employees, number	Number	Payroll (\$1,000)	
Employment in 4 selected months—Continued		Number	Man-hours, total (1,000)	Wages (\$1,000)					
August	November								
(NA)	(NA)	12,373,030	24,341,239	44,595,457	51,780	3,700,740	(NA)	(NA)	
15,633,204	15,755,468	12,373,030	24,341,239	44,595,457	51,780	3,226,484	14,313,534	139,743,154	
1,797,240	1,666,509	1,138,239	2,316,661	3,759,071	4,340	504,626	(1)	(1)	20
313,361	326,025	243,135	504,344	898,665	610	67,622	274,493	782,182	201
220,787	227,024	167,815	354,779	687,878	530	51,849	208,438	623,058	2011
45,549	46,161	33,767	70,034	124,327	30	11,201	44,485	122,902	2013
47,025	52,840	41,551	79,530	86,459	50	4,572	21,570	36,222	2015
293,721	277,200	153,196	332,986	507,163	790	129,445	(1)	(1)	202
21,178	20,721	15,060	32,756	42,920	10	5,949	20,564	44,373	2021
14,193	12,897	11,343	25,672	32,826	50	2,521	12,320	27,597	2022
13,865	12,469	10,900	24,583	39,338	...	2,410	16,635	42,870	2023
40,752	33,597	20,982	42,422	64,193	160	15,346	35,807	92,000	2024
7,344	7,463	5,847	11,701	20,050	...	1,453	7,367	18,472	2025
14,353	14,081	9,074	18,928	27,692	50	4,962	(NA)	(NA)	2026
182,036	175,972	79,987	176,922	280,142	520	96,804	(NA)	(NA)	2027
324,665	187,935	175,366	332,414	442,398	510	23,362	201,109	413,041	203
19,558	14,510	14,125	20,995	31,147	10	996	20,153	37,207	2031
1,597	1,749	1,425	2,803	3,686	...	301	2,431	5,111	2032
216,436	108,866	105,613	206,076	276,063	150	14,073	135,851	283,859	2033
7,448	9,445	6,102	11,678	16,477	170	739	3,976	8,145	2034
36,759	17,827	18,230	35,977	47,594	30	3,635	21,335	47,177	2035
11,456	15,688	11,232	18,779	21,549	60	908	...	...	2036
31,411	19,850	18,638	36,104	45,879	90	2,708	17,363	31,542	2037
113,056	110,407	79,383	173,331	285,775	300	30,261	113,217	311,736	204
29,407	29,703	21,447	47,919	83,813	120	7,402	39,597	119,533	2041
61,459	59,474	41,290	91,220	138,520	160	18,440	55,152	142,562	2042
11,936	11,204	9,149	18,211	38,062	...	2,385	11,276	30,689	2043
4,510	4,241	3,129	7,145	8,397	10	825	4,072	9,999	2044
5,744	5,785	4,366	8,834	16,982	10	1,209	3,120	8,953	2045
292,485	293,670	178,778	362,381	587,592	690	111,632	278,784	763,999	205
247,297	249,099	143,077	293,871	477,972	460	102,799	232,726	654,776	2051
45,188	44,571	35,700	68,509	109,619	230	8,833	46,058	109,223	2052
27,119	44,079	25,083	53,204	92,903	210	4,873	35,423	91,291	206
2,373	5,518	2,719	7,231	7,307	...	359	4,635	8,550	2061
16,299	15,641	12,932	26,061	50,350	50	3,086	17,376	47,172	2062
8,447	22,920	9,431	19,911	35,245	160	1,428	13,412	35,569	2063
79,025	91,187	65,917	129,262	181,104	130	14,378	91,710	214,558	207
65,251	77,320	55,220	107,952	143,850	80	11,498	75,165	167,886	2071
8,490	8,646	6,677	13,503	23,219	...	1,788	9,605	27,480	2072
5,284	5,221	4,019	7,806	14,034	50	1,092	6,940	19,192	2073
213,374	199,710	118,755	231,890	460,438	590	83,450	202,574	598,654	208
99,872	87,494	41,575	80,584	109,519	310	49,731	79,397	194,305	2081
86,674	77,819	53,698	105,923	261,497	270	27,378	82,534	292,405	2082
2,521	2,618	2,036	4,096	10,167	...	567	2,524	9,550	2083
5,334	6,426	4,328	8,393	13,749	10	1,386	7,697	21,896	2084
18,973	25,353	17,117	32,892	65,504	...	4,388	30,422	80,498	2085
140,434	136,296	98,623	196,845	303,029	510	39,602	151,790	384,418	209
2,671	2,652	1,987	3,840	8,696	10	688	3,066	8,944	2091
9,176	9,571	6,755	14,016	27,571	...	2,643	8,003	24,550	2092
2,520	2,671	1,835	3,681	6,314	...	791	2,567	8,337	2093
13,575	13,696	10,584	21,008	43,172	210	2,771	12,324	41,115	2094
10,785	10,021	6,543	12,402	20,308	10	4,040	11,726	37,149	2095
25,048	18,778	12,880	27,975	35,593	150	7,824	46,462	103,038	2097
6,843	7,314	5,276	10,216	14,465	...	1,782	8,043	18,763	2098
69,816	71,593	52,761	103,702	146,907	130	19,061	59,599	142,522	2099
102,574	103,376	87,073	162,988	219,736	330	7,460	111,782	205,838	21
30,733	30,608	27,694	53,643	91,067	180	2,113	27,674	63,204	2111
38,393	39,182	36,076	65,720	78,455	120	2,297	47,068	76,344	2121
7,566	7,500	6,444	11,729	17,229	20	1,071	11,139	22,676	2131
25,882	26,086	16,857	31,894	32,983	10	1,979	25,901	43,614	2141
1,037,493	1,047,643	947,502	1,821,075	2,526,564	620	89,315	1,232,293	2,832,706	22
94,953	90,496	82,090	162,494	250,221	80	9,365	179,740	454,685	221
7,534	6,681	6,363	12,616	20,134	...	650	8,412	24,105	2211
18,480	17,323	16,511	31,150	44,085	80	1,249	33,178	75,380	2212
64,541	62,498	55,702	111,650	174,696	...	6,764	132,348	338,928	2213
4,398	3,994	3,513	7,076	11,304	...	702	5,802	16,272	2216

Table 3.—PROPRIETORS AND PARTNERS, EMPLOYMENT, PAYROLLS, AND MAN-HOURS,

Code No.	Industry and industry group	1954				
		Number of proprietors and partners	All employees			
			Number	Payroll (\$1,000)	Employment in 4 selected months	
					March	May
	Textile mill products—Continued					
222	Yarn and thread mills.....	99	111,024	267,620	112,506	110,111
2222	Yarn throwing mills.....	33	11,840	32,046	12,144	11,742
2223	Thread mills.....	28	13,908	38,281	14,249	13,783
2224	Yarn mills, cotton system.....	38	85,275	197,292	86,113	84,586
223	Broad-woven fabrics.....	184	386,188	1,055,884	392,386	385,396
2233	Cotton broad-woven fabrics.....	68	296,193	783,011	300,504	295,566
2234	Synthetic broad-woven fabrics.....	116	89,994	272,872	91,882	89,830
2241	Narrow fabric mills.....	222	25,676	79,063	25,595	25,659
225	Knitting mills.....	1,608	221,364	597,319	214,720	215,881
2251	Full-fashioned hosiery mills.....	409	60,150	178,454	61,604	59,820
2252	Seamless hosiery mills.....	306	63,350	135,481	61,614	60,870
2253	Knit outerwear mills.....	722	46,403	139,182	40,993	44,529
2254	Knit underwear mills.....	41	31,262	77,501	31,056	31,055
2255	Knit glove mills.....	10	2,025	4,871	1,579	2,016
2256	Knit fabric mills.....	100	16,812	57,878	16,543	16,229
2259	Knitting mills, n.e.c.....	20	1,359	3,950	1,331	1,362
2261	Finishing textiles, except wool.....	183	79,308	292,324	79,923	78,013
227	Carpet and rugs.....	165	51,194	185,340	52,918	49,382
2271	Wool carpets and rugs.....	27	30,076	111,009	31,871	30,055
2273	Carpets and rugs, except wool.....	138	11,479	30,735	11,508	10,770
2274	Hard-surfaced floor coverings.....	...	29,638	43,596	9,539	8,557
228	Hats, except cloth and millinery.....	89	12,988	40,897	13,335	12,113
2281	Fur-felt hats and hat bodies.....	41	8,180	27,258	8,243	7,488
2282	Wool-felt hats and hat bodies.....	19	1,750	4,951	1,682	1,523
2283	Straw hats.....	16	2,294	6,262	2,751	2,352
2284	Hatter's fur.....	13	762	2,426	659	750
229	Miscellaneous textile goods.....	384	58,159	208,274	58,111	57,048
2291	Felt goods, n.e.c.....	23	5,987	23,376	6,015	5,786
2292	Lace goods.....	67	7,442	26,117	7,493	7,099
2293	Paddings and upholstery filling.....	101	9,111	33,031	9,057	8,882
2294	Processed textile waste.....	79	5,768	17,570	5,687	5,742
2295	Coated fabrics, except rubberized.....	22	28,547	41,699	8,600	8,522
2298	Cordage and twine.....	46	12,327	37,374	12,605	12,247
2299	Textile goods, n.e.c.....	46	8,975	29,106	8,654	8,770
23	Apparel and related products.....	23,044	1,190,064	3,201,795	1,212,203	1,136,009
231	Men's and boys' suits and coats.....	927	121,686	382,480	127,964	117,773
2311	Men's and boys' suits and coats.....	857	119,001	374,795	125,131	115,156
2312	Suit and coat findings.....	70	2,684	7,685	2,833	2,617
232	Men's and boys' furnishings.....	2,434	285,594	638,732	287,013	278,901
2321	Men's dress shirts and nightwear.....	411	108,304	236,726	107,491	105,674
2322	Men's and boys' underwear.....	29	9,385	18,923	9,192	9,185
2323	Men's and boys' neckwear.....	321	9,483	27,797	9,745	8,581
2325	Men's and boys' cloth hats.....	366	8,079	21,457	8,166	8,087
2326	Hat and cap materials.....	28	936	2,941	951	896
2327	Separate trousers.....	608	51,652	118,688	53,293	51,039
2328	Work shirts.....	20	6,992	11,468	6,908	6,795
2329	Men's and boys' clothing, n.e.c.....	651	90,759	200,730	91,267	88,644
233	Women's and misses' outerwear.....	7,400	363,896	1,046,120	379,971	340,828
2331	Blouses.....	1,025	42,980	99,818	43,200	40,968
2333	Dresses, unit price.....	2,917	143,278	418,577	146,115	144,912
2334	Dresses, dozen price.....	640	54,507	127,276	55,737	55,730
2337	Women's suits, coats, and skirts.....	2,235	96,022	326,933	105,391	71,935
2338	Women's neckwear and scarfs.....	107	1,745	6,189	1,805	1,468
2339	Women's outerwear, n.e.c.....	476	25,361	67,324	27,723	25,815
234	Women's undergarments.....	1,020	112,234	284,814	110,731	110,205
2341	Women's and children's underwear.....	836	73,427	176,305	72,292	70,842
2342	Corsets and allied garments.....	184	38,807	108,509	38,439	39,363
2351	Millinery.....	527	20,235	65,809	24,403	16,714
236	Children's outerwear.....	1,517	77,538	196,303	78,474	73,183
2361	Children's dresses.....	630	32,525	78,244	32,948	31,518
2363	Children's coats.....	315	14,399	44,980	14,830	11,774
2369	Children's outerwear, n.e.c.....	572	30,613	73,079	30,696	29,891
2371	Fur goods.....	1,669	9,983	42,833	8,315	9,289

See footnotes at end of table.

EMPLOYMENT AND PAYROLLS

202-7

FOR INDUSTRY GROUPS AND FOR INDUSTRIES: 1954 AND 1947—Continued

1954—Continued							1947, all employees		Code No.
All employees—Continued		Production workers			Force account construction workers, number (average for the year)	Administrative, supervisory, sales, technical, office and all other employees, number (average for the year)	Number	Payroll (\$1,000)	
Employment in 4 selected months—Continued		Number	Man-hours, total (1,000)	Wages (\$1,000)					
August	November								
109,112	112,363	104,016	189,094	231,616	90	6,918	150,909	300,554	222
11,463	12,012	10,849	21,327	26,790	...	991	14,866	28,401	2222
13,619	13,980	12,221	22,807	29,267	...	1,687	14,652	33,240	2223
84,030	86,371	80,944	144,959	175,558	90	4,240	121,391	238,913	2224
383,499	383,470	363,666	704,516	937,125	180	22,341	427,844	937,818	223
293,636	295,067	280,546	537,531	702,649	180	15,467	330,196	705,746	2233
89,863	88,403	83,120	166,984	234,476	...	6,874	97,648	232,072	2234
25,317	26,134	22,862	44,962	61,456	10	2,804	28,080	65,011	2241
225,715	229,131	201,977	371,029	488,095	40	19,347	229,303	490,370	225
58,987	60,192	55,023	101,925	151,619	10	5,117	70,034	178,062	2251
64,133	66,783	59,656	105,905	117,455	20	3,674	64,913	105,711	2252
50,134	49,956	41,345	75,955	104,490	10	5,048	34,543	80,674	2253
31,771	31,165	28,248	51,204	63,095	...	3,014	40,579	80,520	2254
2,427	2,078	1,855	3,258	3,966	...	170	4,798	8,509	2255
16,925	17,550	14,680	30,560	44,621	...	2,132	13,460	34,681	2256
1,338	1,407	1,167	2,218	2,846	...	192	976	2,213	2259
78,181	81,116	68,485	142,839	228,262	120	10,703	77,985	218,933	2261
50,064	51,618	43,756	86,096	145,202	20	7,417	57,079	157,507	227
29,127	29,251	25,336	48,852	86,199	...	4,740	40,096	111,558	2271
11,121	12,519	10,178	19,862	23,085	20	1,281	7,055	14,378	2273
9,816	9,848	8,242	17,382	35,918	...	1,396	9,928	31,571	2274
13,093	13,405	11,239	20,411	32,169	...	1,748	21,388	55,082	228
8,488	8,503	7,028	12,248	21,317	...	1,152	13,034	36,433	2281
2,032	1,762	1,552	2,809	3,862	...	198	4,427	9,317	2282
1,714	2,360	1,992	4,103	5,252	...	302	2,438	5,387	2283
859	780	666	1,250	1,736	...	96	1,489	3,945	2284
57,559	59,910	49,407	99,630	152,413	80	8,672	59,965	152,746	229
5,924	6,222	5,182	10,767	18,083	...	805	4,737	14,177	2291
7,371	7,805	6,568	12,521	20,492	60	814	8,580	21,346	2292
8,871	9,633	7,777	16,031	24,489	...	1,334	8,306	21,466	2293
5,835	5,809	4,856	10,142	12,717	...	912	5,805	12,894	2294
8,411	8,656	6,576	14,711	27,386	10	1,960	8,588	27,925	2295
12,005	12,450	10,709	20,568	28,128	10	1,608	16,366	37,143	2298
9,142	9,335	7,736	14,888	21,116	...	1,239	7,583	17,795	2299
1,197,005	1,214,969	1,069,867	1,898,999	2,521,135	1,030	119,164	1,081,670	2,525,183	23
121,807	119,196	109,135	191,935	307,160	...	12,551	151,116	406,304	231
119,160	116,558	106,720	187,579	301,062	...	12,281	147,099	397,151	2311
2,647	2,638	2,414	4,356	6,097	...	270	4,017	9,153	2312
285,353	291,084	263,003	469,927	522,918	40	22,549	253,020	455,438	232
108,922	111,129	100,262	181,083	196,683	30	8,012	94,182	163,751	2321
9,522	9,641	8,827	15,325	16,289	...	558	7,269	11,330	2322
9,236	10,370	8,051	13,789	19,056	...	1,432	10,744	25,367	2323
8,037	8,024	7,451	14,011	17,977	...	628	5,541	12,379	2325
938	957	796	1,424	2,145	...	140	1,111	3,002	2326
50,852	51,422	48,315	86,421	99,562	10	3,327	47,279	91,400	2327
7,169	7,095	6,789	11,425	10,632	...	203	12,061	16,609	2328
90,677	92,446	82,510	146,446	160,573	...	8,249	74,833	131,600	2329
367,822	366,957	327,042	569,369	824,534	880	35,973	313,095	846,416	233
42,965	44,785	39,567	67,901	82,201	...	3,413	32,883	67,667	2331
140,009	142,079	129,527	219,314	334,819	50	13,701	133,779	372,080	2333
52,823	53,739	49,442	90,092	100,137	750	4,315	48,590	90,221	2334
108,049	98,713	84,410	147,479	252,312	70	11,542	82,650	282,804	2337
1,764	1,944	1,457	2,434	3,561	...	288	2,754	6,963	2338
22,212	25,697	22,637	42,147	51,503	10	2,714	12,439	26,681	2339
110,940	117,063	100,609	179,036	219,040	20	11,605	94,615	196,157	234
72,885	77,689	66,885	118,702	140,063	10	6,532	58,004	115,949	2341
38,055	39,374	33,724	60,333	78,977	10	5,073	36,611	80,208	2342
21,159	18,667	18,222	33,577	53,667	...	2,013	20,933	59,566	2351
80,036	78,461	70,086	125,003	155,804	10	7,442	48,245	100,954	236
32,418	33,216	29,410	52,459	61,892	10	3,105	22,456	43,346	2361
17,132	13,863	12,849	22,692	35,598	...	1,550	11,008	22,524	2363
30,486	31,382	27,826	49,851	58,313	...	2,787	14,781	35,084	2369
10,825	11,505	7,994	13,935	33,915	10	1,979	16,190	68,571	2371

Table 3.—PROPRIETORS AND PARTNERS, EMPLOYMENT, PAYROLLS, AND MAN-HOURS,

Code No.	Industry and industry group	Number of proprietors and partners	1954			
			All employees			
			Number	Payroll (\$1,000)	Employment in 4 selected months	
					March	May
	Apparel and related products—Continued					
238	Miscellaneous apparel.....	1,238	64,333	163,381	63,582	60,151
2381	Fabric dress gloves.....	74	4,537	10,374	4,870	4,052
2382	Fabric work gloves.....	51	10,084	19,335	10,426	9,709
2383	Suspenders and garters.....	34	934	2,435	927	861
2384	Robes and dressing gowns.....	274	10,957	27,039	10,128	9,909
2385	Waterproof outer garments.....	163	12,872	34,702	12,767	11,561
2386	Leather and sheep-lined clothing.....	91	5,361	15,730	4,733	4,838
2387	Belts.....	394	12,571	35,403	12,783	12,171
2388	Handkerchiefs.....	54	3,513	7,792	3,469	3,378
2389	Apparel, n.e.c.....	103	3,501	10,569	3,479	3,672
239	Fabricated textiles.....	6,312	134,560	381,319	131,750	128,965
2391	Curtains and draperies.....	620	13,988	36,899	13,821	13,438
2392	Housefurnishings, n.e.c.....	926	36,188	97,105	34,903	34,619
2393	Textile bags.....	164	12,109	35,120	12,297	11,796
2394	Canvas products.....	1,004	13,540	40,180	12,308	14,421
2395	Tucking, pleating, and stitching.....	527	6,453	17,602	6,673	6,074
2396	Trimnings and art goods.....	618	17,754	55,623	18,188	16,638
2397	Schiffli-machine embroideries.....	695	5,715	19,739	5,912	5,340
2398	Embroideries, except Schiffli.....	919	10,803	26,880	10,288	8,989
2399	Textile products, n.e.c.....	839	18,006	52,167	17,360	17,650
24	Lumber and wood products.....	41,987	645,936	1,933,523	622,721	648,812
2411	Logging camps and contractors.....	13,946	75,510	210,625	66,923	74,873
242	Lumber and basic products.....	22,034	341,350	962,339	330,786	343,953
2421	Sawmills and planing mills.....	21,470	321,199	906,847	310,272	324,000
2422	Veneer mills.....	143	12,825	35,453	13,028	12,335
2423	Shingle mills.....	192	2,532	9,367	2,348	2,596
2424	Cooperage stock mills.....	178	23,368	6,521	3,581	3,545
2425	Excelsior mills.....	51	1,424	4,150	1,557	1,477
243	Millwork and related products.....	2,911	119,416	456,405	114,107	118,747
2431	Millwork plants.....	2,751	68,668	258,198	64,923	67,195
2432	Plywood plants.....	64	39,201	152,301	39,953	40,166
2433	Prefabricated wood products.....	96	11,547	45,905	9,231	11,386
244	Wooden containers.....	1,072	52,307	137,641	53,023	53,989
2441	Fruit and vegetable baskets.....	101	6,685	13,869	6,516	6,854
2442	Rattan and willowware.....	89	1,293	3,307	1,286	1,271
2443	Cigar boxes.....	12	1,081	2,333	1,100	1,079
2444	Wooden boxes.....	807	39,522	105,781	40,206	40,899
2445	Cooperage.....	63	23,723	12,350	3,915	3,886
249	Miscellaneous wood products.....	2,024	57,351	166,512	57,882	57,250
2491	Wood preserving.....	100	12,073	36,162	12,312	12,150
2492	Lasts and related products.....	15	1,463	5,640	1,384	1,488
2493	Mirror and picture frames.....	268	5,214	17,351	5,285	4,998
2499	Wood products, n.e.c.....	1,641	38,600	107,357	38,901	38,614
25	Furniture and fixtures.....	7,323	340,694	1,197,376	338,964	330,807
251	Household furniture.....	4,450	243,932	818,893	244,058	236,163
2511	Wood furniture, not upholstered.....	1,923	124,898	388,409	125,511	120,355
2512	Upholstered household furniture.....	1,165	56,022	193,596	55,375	53,793
2514	Metal household furniture.....	362	29,629	110,933	30,248	29,674
2515	Mattresses and bedsprings.....	948	32,096	121,516	31,541	31,123
2519	Household furniture, n.e.c.....	52	1,285	4,437	1,383	1,218
252	Office furniture.....	113	21,652	84,826	21,667	21,256
2521	Wood office furniture.....	60	5,509	18,788	5,430	5,328
2522	Metal office furniture.....	53	16,143	66,038	16,237	15,928
253	Public and professional furniture.....	216	19,570	75,730	18,925	19,070
2531	Public-building furniture.....	174	14,044	52,638	13,473	13,693
2532	Professional furniture.....	42	5,526	23,092	5,452	5,377
2541	Partitions and fixtures.....	1,191	33,137	142,515	32,432	31,789
256	Screens, shades, and blinds.....	1,172	18,189	59,722	17,697	18,323
2561	Window and door screens.....	172	4,405	16,887	4,217	4,389
2562	Window shades.....	152	4,368	15,580	4,495	4,406
2563	Venetian blinds.....	848	9,416	27,254	8,985	9,528
259	Furniture and fixtures, n.e.c.....	181	4,211	15,687	4,185	4,206
2591	Restaurant furniture.....	145	3,401	12,718	3,382	3,398
2599	Furniture and fixtures, n.e.c.....	36	810	2,969	803	808

See footnotes at end of table.

EMPLOYMENT AND PAYROLLS

202-9

FOR INDUSTRY GROUPS AND FOR INDUSTRIES: 1954 AND 1947--Continued

1954—Continued							1947, all employees		Code No.
All employees—Continued		Production workers			Force account construction workers, number (average for the year)	Administrative, supervisory, sales, technical, office and all other employees, number (average for the year)	Number	Payroll (\$1,000)	
Employment in 4 selected months—Continued		Number	Man-hours, total (1,000)	Wages (\$1,000)					
August	November								
65,342	68,249	57,402	100,723	125,202	...	6,933	57,793	120,609	238
4,548	4,680	4,127	7,131	8,266	...	410	5,633	9,233	2381
9,958	10,245	9,484	16,536	16,631	...	600	10,865	17,749	2382
940	1,007	806	1,400	1,768	...	128	1,685	3,641	2383
11,128	12,665	10,043	16,891	21,093	...	914	10,884	23,353	2384
13,396	13,765	11,360	20,167	27,117	...	1,512	8,573	20,272	2385
5,914	5,958	4,660	8,106	11,862	...	701	4,228	10,432	2386
12,428	12,902	10,789	19,639	25,176	...	1,782	9,162	22,016	2387
3,552	3,652	3,178	5,179	5,797	...	335	4,583	9,054	2388
3,478	3,375	2,950	5,670	7,489	...	551	2,180	4,859	2389
133,721	143,787	116,371	215,490	278,889	70	18,119	126,663	271,168	239
13,871	14,822	12,350	22,976	27,304	...	1,638	7,982	17,081	2391
36,365	38,865	31,948	59,271	71,686	50	4,190	39,946	78,272	2392
12,094	12,250	9,897	18,748	24,329	10	2,202	13,850	28,279	2393
13,968	13,464	10,724	20,498	25,917	10	2,806	10,603	24,751	2394
6,325	6,738	6,021	10,778	14,828	...	432	5,929	12,421	2395
16,515	19,676	15,045	28,105	40,558	...	2,709	14,521	32,720	2396
5,446	6,164	5,061	9,969	14,772	...	654	5,678	15,054	2397
11,090	12,843	10,041	16,409	22,178	...	762	9,836	20,234	2398
18,047	18,965	15,280	28,733	37,314	...	2,726	18,318	42,356	2399
645,094	666,971	581,920	1,106,955	1,604,859	1,630	62,386	(1)	(1)	24
78,211	82,036	68,171	115,575	182,295	200	7,139	(1)	(1)	2411
341,140	349,394	314,684	592,946	827,536	1,120	25,546	409,808	803,116	242
321,490	329,034	296,070	558,428	781,760	1,050	24,079	385,895	759,843	2421
12,307	13,629	11,796	23,254	28,464	10	1,019	10,461	20,441	2422
2,537	2,646	2,339	3,223	7,970	...	193	...	...	2423
3,492	2,740	3,188	5,575	5,793	...	180	12,291	20,253	2424
1,314	1,345	1,290	2,463	3,547	60	74	1,161	2,579	2425
118,109	126,699	101,017	205,260	351,221	250	18,149	97,347	263,712	243
70,557	71,997	55,700	113,488	188,156	160	12,807	59,783	162,050	2431
34,050	42,634	36,100	74,155	133,940	90	3,011	27,489	73,783	2432
13,502	12,068	9,216	17,615	29,125	...	2,331	10,075	27,879	2433
50,806	51,398	47,679	93,378	113,637	20	4,608	69,104	139,553	244
6,783	6,589	6,278	12,497	11,782	...	407	9,105	13,398	2441
1,291	1,325	1,159	2,228	2,731	...	134	1,073	2,101	2442
1,089	1,057	992	2,019	1,971	...	89	1,875	3,135	2443
38,245	38,736	35,871	70,136	86,643	20	3,631	47,828	98,833	2444
3,398	3,691	3,377	6,497	10,507	...	346	9,223	22,086	2445
56,828	57,444	50,368	99,794	130,169	40	6,943	65,540	145,576	249
12,200	11,632	10,409	20,671	28,020	...	1,664	16,247	37,142	2491
1,497	1,484	1,220	2,425	4,190	...	243	1,959	5,348	2492
5,091	5,481	4,420	8,845	12,520	...	794	3,811	10,255	2493
38,040	38,847	34,318	67,852	85,438	40	4,242	43,523	92,831	2499
340,194	352,793	286,649	571,294	892,891	510	53,535	316,273	806,948	25
241,637	253,862	208,262	413,823	618,344	210	35,460	228,429	558,058	251
123,320	130,407	109,618	222,063	303,249	110	15,170	132,050	304,614	2511
55,703	59,218	48,119	93,276	146,990	50	7,853	44,755	114,861	2512
28,487	30,106	24,345	47,083	80,199	...	5,284	19,651	52,463	2514
32,889	32,832	25,122	49,325	84,588	50	6,924	30,320	82,063	2515
1,238	1,299	1,056	2,074	3,316	...	229	1,653	4,057	2519
21,536	22,149	18,170	36,447	66,140	...	3,482	20,747	58,222	252
5,576	5,702	4,773	9,681	14,605	...	736	6,458	16,805	2521
15,960	16,447	13,397	26,765	51,535	...	2,746	14,289	41,417	2522
20,678	19,607	15,791	32,955	54,758	...	3,779	15,410	44,127	253
15,067	13,943	11,556	24,120	38,905	...	2,488	10,213	28,629	2531
5,611	5,664	4,234	8,834	15,853	...	1,292	5,197	15,498	2532
33,726	34,600	26,584	53,101	102,071	300	6,253	27,816	89,115	2541
18,413	18,328	14,328	27,999	40,090	...	3,861	19,652	45,850	256
4,525	4,491	3,632	7,240	11,376	...	773	4,206	10,892	2561
4,231	4,343	3,404	6,746	10,648	...	964	5,748	14,609	2562
9,657	9,494	7,290	14,012	18,065	...	2,126	9,698	20,349	2563
4,204	4,247	3,512	6,968	11,485	...	699	4,219	11,571	259
3,398	3,425	2,809	5,594	9,245	...	592	3,361	9,149	2591
806	822	703	1,373	2,240	...	107	858	2,427	2599

Table 3.—PROPRIETORS AND PARTNERS, EMPLOYMENT, PAYROLLS, AND MAN-HOURS,

Code No.	Industry and industry group	1954				
		Number of proprietors and partners	All employees			
			Number	Payroll (\$1,000)	Employment in 4 selected months	
					March	May
26	Pulp, paper and products.....	1,360	530,210	2,217,420	526,175	525,757
261	Pulp, paper and board.....	11	216,255	974,866	214,840	215,149
2611	Pulp mills.....	3	57,672	256,622	56,737	57,357
2612	Paper and paperboard mills.....	7	142,191	648,972	142,238	141,592
2613	Building paper and board mills.....	1	16,391	69,271	15,865	16,200
2641	Paper coating and glazing.....	84	27,697	123,991	27,846	27,819
2651	Envelopes.....	37	15,902	63,044	15,975	15,794
2661	Paper bags.....	110	33,326	121,116	33,108	33,036
267	Paperboard containers.....	622	145,053	570,643	143,218	141,903
2671	Paperboard boxes.....	559	132,964	525,685	130,169	129,916
2674	Fiber cans, tubes, drums, etc.....	63	12,088	44,958	13,049	11,987
269	Pulp, paper and products, n.e.c.....	496	91,974	363,760	91,188	92,056
2691	Die-cut paper and board.....	196	12,260	47,940	11,932	12,131
2693	Wallpaper.....	17	3,636	14,330	3,467	3,620
2694	Pulp goods, pressed and molded.....	10	2,882	11,630	2,888	2,838
2699	Paper and board products, n.e.c.....	273	73,195	289,859	72,901	73,467
27	Printing and publishing.....	24,329	804,386	3,625,133	800,982	798,895
2711	Newspapers.....	6,962	281,799	1,262,793	280,437	280,756
2721	Periodicals.....	773	62,428	312,695	62,725	61,796
273	Books.....	758	57,400	245,196	58,064	56,370
2731	Books; publishing and printing.....	330	34,704	144,757	35,177	33,542
2732	Book printing.....	428	22,695	100,439	22,887	22,828
2741	Miscellaneous publishing.....	504	18,378	73,174	18,085	18,401
2751	Commercial printing.....	10,106	200,233	888,659	199,730	199,450
2761	Lithographing.....	2,035	77,717	376,571	77,238	77,127
2771	Greeting cards.....	172	21,347	70,434	19,776	20,314
278	Bookbinding and related industries.....	1,117	37,305	130,670	37,100	36,969
2781	Bookbinding.....	603	17,178	58,966	17,115	17,026
2782	Blankbooks and paper ruling.....	255	8,624	29,831	8,545	8,471
2783	Loose-leaf binders and devices.....	92	8,199	30,948	8,199	8,233
2789	Miscellaneous bookbinding work.....	167	3,303	10,925	3,241	3,239
279	Printing trade service.....	1,902	47,777	264,937	47,827	47,712
2791	Typesetting.....	870	14,550	74,558	14,533	14,475
2792	Engraving and plate printing.....	438	7,510	29,412	7,339	7,444
2793	Photoengraving.....	525	17,711	112,575	17,858	17,790
2794	Electrotyping and stereotyping.....	69	8,005	48,391	8,097	8,003
28	Chemicals and products.....	3,523	739,389	3,407,199	751,985	738,912
281	Inorganic chemicals.....	91	121,252	593,576	120,940	121,061
2811	Sulfuric acid.....	...	3,805	16,730	3,794	3,799
2812	Alkalies and chlorine.....	...	20,440	96,047	20,493	20,340
2819	Inorganic chemicals, n.e.c.....	91	97,006	480,798	96,653	96,922
282	Organic chemicals.....	56	245,465	1,193,196	248,361	244,604
2821	Cyclic (coal tar) crudes.....	...	1,925	8,246	1,942	1,930
2822	Intermediate and organic colors.....	2	32,748	165,511	33,111	33,180
2823	Plastics materials.....	17	41,145	201,487	40,662	41,208
2824	Synthetic rubber.....	...	8,531	44,502	8,879	8,530
2825	Synthetic fibers.....	...	61,105	261,753	60,415	60,043
2826	Explosives.....	5	32,478	146,843	36,258	32,366
2829	Organic chemicals, n.e.c.....	32	67,531	364,852	67,094	67,347
283	Drugs and medicines.....	424	92,062	426,430	92,721	90,948
2831	Biological products.....	32	3,965	15,789	3,858	3,961
2833	Medicinal chemicals (including botanical).....	24	11,541	56,872	11,371	11,411
2834	Pharmaceutical preparations.....	368	76,555	353,769	77,492	75,576
284	Soap and related products.....	717	46,221	219,412	46,653	46,069
2841	Soap and glycerin.....	114	25,839	127,817	26,130	25,716
2842	Cleaning and polishing products.....	581	18,026	78,550	18,183	17,989
2843	Sulfonated oils and assistants.....	22	2,355	13,044	2,340	2,364
285	Paints and allied products.....	542	69,973	324,005	69,948	69,723
2851	Paints and varnishes.....	486	56,580	263,887	56,772	56,484
2852	Inorganic color pigments.....	19	12,182	54,755	12,058	12,066
2853	Whiting and fillers.....	37	1,210	5,363	1,118	1,173

See footnotes at end of table.

EMPLOYMENT AND PAYROLLS

202-11

FOR INDUSTRY GROUPS AND FOR INDUSTRIES: 1954 AND 1947—Continued

1954—Continued							1947, all employees		Code No.
All employees—Continued		Production workers			Force account construction workers, number (average for the year)	Administrative, supervisory, sales, technical, office and all other employees, number (average for the year)	Number	Payroll (\$1,000)	
Employment in 4 selected months—Continued		Number	Man-hours, total (1,000)	Wages (\$1,000)					
August	November								
530,332	538,555	435,727	919,940	1,656,720	2,810	91,673	454,075	1,294,535	26
216,737	218,291	183,039	401,498	777,832	2,570	30,646	197,893	607,586	261
58,274	58,321	48,896	105,252	207,188	1,430	7,346	50,290	148,125	2611
141,961	142,773	119,859	265,871	513,108	1,140	23,299	147,603	459,461	2612
16,502	16,997	14,284	30,374	57,536					2613
27,566	27,557	20,017	42,091	80,101	110	7,570	22,269	70,661	2641
15,744	16,094	13,019	26,517	43,516	...	2,883	13,797	39,191	2651
33,662	33,496	27,773	56,227	89,530	...	5,553	22,230	53,774	2661
144,375	150,716	118,223	242,171	406,137	30	26,800	118,982	315,838	267
132,895	138,879	107,762	221,054	371,275	20	25,182	109,745	292,865	2671
11,480	11,837	10,460	21,117	34,861	10	1,618	9,237	22,973	2674
92,248	92,401	73,654	151,434	259,602	100	18,220	78,904	207,485	269
12,097	12,881	9,933	19,677	34,633	...	2,327	9,281	25,478	2691
3,653	3,804	2,926	6,038	10,325	...	710	5,462	16,287	2693
2,969	2,831	2,401	5,018	9,111	...	481	1,748	4,910	2694
73,529	72,885	58,393	120,699	205,532	100	14,702	62,413	160,810	2699
800,073	817,576	499,666	961,465	2,115,344	750	303,971	715,120	2,276,262	27
281,071	284,931	148,941	281,198	667,058	150	132,708	234,375	743,854	2711
61,653	63,537	16,348	29,614	68,218	30	46,050	68,957	235,706	2721
57,371	57,792	27,893	55,025	107,607	...	29,507	51,964	146,013	273
34,890	35,206	8,802	17,098	29,250	...	25,902	39,942	104,278	2731
22,481	22,586	19,090	37,927	78,356	...	3,605	12,022	41,735	2732
18,181	18,845	5,271	9,570	24,090	20	13,087	12,036	35,200	2741
198,285	203,466	157,567	305,988	650,828	180	42,486	191,719	594,125	2751
77,137	79,366	60,178	117,968	261,249	260	17,277	52,408	192,657	2761
21,822	23,478	15,297	28,624	41,960	...	6,050	18,053	43,898	2771
37,236	37,911	31,646	61,124	98,243	30	5,630	42,561	107,466	278
17,005	17,566	15,453	29,368	48,450	20	1,705	22,227	57,541	2781
8,704	8,778	6,952	13,425	20,760	10	1,662	8,768	21,028	2782
8,277	8,086	6,329	12,659	20,788	...	1,870	8,133	20,946	2783
3,250	3,481	2,910	5,671	8,244	...	393	3,433	7,951	2789
47,317	48,250	36,522	72,350	196,087	80	11,175	43,047	177,343	279
14,413	14,779	11,744	23,082	57,492	...	2,806	11,475	44,906	2791
7,431	7,827	6,080	11,963	21,739	...	1,430	7,688	20,998	2792
17,591	17,608	12,778	25,575	82,634	80	4,851	16,711	80,003	2793
7,882	8,036	5,917	11,728	34,220	...	2,088	7,173	31,436	2794
733,745	738,339	501,272	1,016,053	2,005,627	14,450	223,667	626,418	1,898,472	28
122,605	120,398	77,544	158,415	346,270	8,040	35,666	62,448	194,784	281
3,886	3,741	2,927	5,922	12,119	90	788	3,110	9,208	2811
20,652	20,274	15,198	31,393	67,890	210	5,032	19,853	63,822	2812
98,067	96,383	59,418	121,099	266,260	7,740	29,846	39,485	121,754	2819
243,752	245,132	176,220	351,388	769,231	5,250	63,995	203,914	648,046	282
1,953	1,874	1,488	2,829	5,620	...	437	1,972	5,490	2821
32,344	32,356	22,297	44,142	99,416	670	9,781	33,603	115,076	2822
41,118	41,592	28,388	57,441	122,188	650	12,106	28,627	91,397	2823
8,230	8,485	6,178	12,217	30,214	260	2,093	7,663	25,774	2824
60,836	63,125	45,894	89,959	174,376	1,240	13,971	69,683	199,910	2825
31,271	30,016	25,544	51,696	109,986	230	6,704	10,426	32,313	2826
68,000	67,684	46,428	93,101	227,428	2,200	18,903	51,940	178,086	2829
91,858	92,721	57,927	117,075	216,003	10	34,125	81,497	236,191	283
4,013	4,031	2,864	5,722	9,333	...	1,101	2,987	8,474	2831
11,698	11,685	7,743	16,229	33,345	...	3,798	13,097	42,220	2833
76,147	77,005	47,320	95,123	173,324	10	29,225	65,413	185,497	2834
46,313	45,845	27,571	51,973	107,627	20	18,630	44,864	149,497	284
26,088	25,423	15,668	29,259	68,303	...	10,171	27,508	93,187	2841
17,857	18,074	10,551	20,206	34,593	20	7,455	15,387	48,324	2842
2,368	2,348	1,352	2,507	4,729	...	1,003	1,969	7,986	2843
70,722	69,491	43,673	87,408	167,344	550	25,750	68,933	228,559	285
57,136	55,926	33,865	67,660	127,640	110	22,605	53,412	180,952	2851
12,303	12,300	9,042	18,220	37,193	440	2,700	14,266	43,466	2852
1,283	1,265	764	1,528	2,510	...	445	1,255	4,141	2853

MANUFACTURES—SUMMARY STATISTICS

Table 3.—PROPRIETORS AND PARTNERS, EMPLOYMENT, PAYROLLS, AND MAN-HOURS,

Code No.	Industry and industry group	Number of proprietors and partners	1954			
			All employees			
			Number	Payroll (\$1,000)	Employment in 4 selected months	
					March	May
Chemicals and products—Continued						
286	Gum and wood chemicals.....	54	7,245	26,680	7,162	7,239
2861	Hardwood distillation.....	21	1,627	5,222	1,714	1,607
2862	Softwood distillation.....	16	4,431	17,662	4,329	4,436
2863	Gum naval stores.....	12	516	1,289	432	513
2865	Natural tanning and dyeing materials.....	5	670	2,507	687	683
287	Fertilizers.....	204	31,769	111,528	41,147	35,508
2871	Fertilizers.....	32	² 19,728	73,048	25,114	21,740
2872	Fertilizers, mixing only.....	172	² 12,040	38,480	16,033	13,768
288	Vegetable and animal oils.....	402	39,964	152,708	40,123	37,504
2881	Cottonseed oil mills.....	27	² 13,665	43,103	14,594	11,628
2882	Linseed oil mills.....	...	² 1,263	5,625	1,168	1,251
2883	Soybean oil mills.....	1	² 6,922	29,453	6,845	6,587
2884	Vegetable oil mills, n.e.c.....	16	² 2,460	9,198	2,646	2,466
2886	Grease and tallow.....	339	11,466	46,633	11,250	11,327
2887	Fatty acids.....	2	² 1,891	10,263	1,948	1,903
2889	Animal oils, n.e.c.....	17	² 2,294	8,430	1,672	2,342
289	Chemical products, n.e.c.....	1,033	85,436	359,661	84,930	86,256
2891	Printing ink.....	69	7,609	35,713	7,570	7,634
2892	Essential oils.....	12	547	2,846	539	550
2893	Toilet preparations.....	262	24,809	94,726	24,230	24,678
2894	Glue and gelatin.....	64	6,753	29,192	6,827	6,767
2895	Carbon black.....	...	3,410	16,466	3,387	3,348
2896	Compressed and liquefied gases.....	26	10,363	44,092	10,494	10,462
2897	Insecticides and fungicides.....	73	6,510	25,218	6,377	7,399
2898	Salt.....	12	4,017	16,379	3,902	3,903
2899	Chemical products, n.e.c.....	515	21,415	95,026	21,604	21,515
29	Petroleum and coal products.....	292	215,843	1,101,814	214,765	215,919
2911	Petroleum refining.....	81	153,072	816,120	152,617	153,075
293	Coke and byproducts.....	11	32,504	148,579	33,676	32,358
2931	Beehive coke ovens.....	11	594	1,652	700	392
2932	Byproduct coke ovens.....	...	31,909	146,927	32,976	31,966
295	Paving and roofing materials.....	105	20,097	88,146	18,392	20,304
2951	Paving mixtures and blocks.....	62	4,367	20,092	3,509	4,412
2952	Roofing felts and coatings.....	43	15,730	68,054	14,883	15,892
299	Petroleum and coal products, n.e.c.....	95	10,169	48,967	10,080	10,182
2992	Lubricants, n.e.c.....	88	8,159	40,062	8,104	8,217
2999	Petroleum and coal products, n.e.c.....	7	2,009	8,905	1,976	1,965
30	Rubber products.....	523	246,526	1,059,337	244,770	243,531
3011	Tires and inner tubes.....	4	92,748	441,607	91,619	91,941
3021	Rubber footwear.....	1	18,322	64,022	17,965	17,638
3031	Reclaimed rubber.....	3	2,953	12,697	2,915	2,947
3099	Rubber industries, n.e.c.....	515	132,503	541,011	132,271	131,005
31	Leather and leather goods.....	2,565	356,578	1,027,314	362,103	342,773
3111	Leather tanning and finishing.....	208	43,468	168,139	43,683	43,417
3121	Industrial leather belting.....	57	4,576	18,569	4,673	4,628
3131	Footwear cut stock.....	271	20,059	57,113	21,038	19,158
314	Footwear, except rubber.....	363	230,255	619,332	234,841	223,303
3141	Footwear, except rubber.....	291	219,375	589,267	224,962	213,046
3142	House slippers.....	72	10,879	30,065	9,879	10,257
315	Leather gloves.....	185	6,917	15,573	6,083	6,493
3151	Leather dress gloves.....	107	4,438	9,739	3,478	4,031
3152	Leather work gloves.....	78	2,479	5,834	2,605	2,462
3161	Luggage.....	362	² 15,856	51,679	14,648	15,392
317	Purses and small leather goods.....	710	29,544	80,434	31,354	24,538
3171	Handbags and purses.....	490	² 22,881	61,405	24,982	19,080
3172	Small leather goods.....	220	² 6,663	19,029	6,372	5,458
319	Miscellaneous leather goods.....	409	5,900	16,472	5,783	5,844
3192	Saddlery, harness, and whips.....	99	² 1,289	3,533	1,298	1,377
3199	Leather goods, n.e.c.....	310	² 4,611	12,938	4,485	4,467

See footnotes at end of table.

EMPLOYMENT AND PAYROLLS

202-13

FOR INDUSTRY GROUPS AND FOR INDUSTRIES: 1954 AND 1947—Continued

1954—Continued							1947, all employees		Code No.
All employees—Continued		Production workers			Force account construction workers, number (average for the year)	Administrative, supervisory, sales, technical, office and all other employees, number (average for the year)	Number	Payroll (\$1,000)	
Employment in 4 selected months—Continued		Number	Man-hours, total (1,000)	Wages (\$1,000)					
August	November								
7,225	7,355	6,052	12,764	19,872	10	1,184	8,447	20,472	286
1,546	1,642	1,384	2,896	4,114	...	243	1,879	4,157	2861
4,447	4,514	3,698	7,886	13,260	...	733	4,567	11,798	2862
570	550	423	927	902	...	93	638	1,385	2863
662	649	545	1,054	1,594	10	115	1,363	3,132	2865
27,102	28,811	24,595	53,102	76,914	100	7,074	31,972	71,700	287
17,094	18,109	15,728	34,527	53,431	60	3,940	20,357	47,928	2871
10,008	10,702	8,866	18,575	23,483	40	3,134	11,615	23,772	2872
38,426	43,786	31,003	71,890	105,291	150	8,811	43,323	116,926	288
11,758	16,679	11,082	27,080	29,831	120	2,463	14,398	31,419	2881
1,332	1,300	1,026	2,479	4,860	...	237	1,577	4,536	2882
6,776	7,479	5,447	11,624	20,679	...	1,475	6,460	18,773	2883
2,346	2,383	1,893	4,041	6,337	20	547	5,036	13,356	2884
11,482	11,804	8,480	19,567	31,291	10	2,976	12,364	38,588	2886
1,857	1,856	1,185	2,712	6,009	...	706	1,335	4,433	2887
2,875	2,285	1,889	4,384	6,282	...	405	2,153	5,821	2889
85,742	84,800	56,684	112,035	197,071	320	28,432	81,020	232,297	289
7,622	7,609	5,268	10,699	20,746	...	2,341	6,021	20,496	2891
552	545	330	636	1,215	...	217	1,151	3,787	2892
24,975	25,354	16,185	31,051	47,728	...	8,624	27,247	69,398	2893
6,696	6,723	4,814	9,425	17,683	10	1,929	7,936	16,577	2894
3,421	3,482	2,801	6,112	13,029	200	409	3,184	10,017	2895
10,300	10,198	6,315	13,143	25,288	40	4,008	8,983	25,241	2896
6,872	5,390	4,276	8,224	13,211	70	2,164	4,060	11,524	2897
4,039	4,225	3,346	7,299	12,694	...	671	4,809	12,762	2898
21,265	21,274	13,346	25,443	45,473	...	8,069	17,629	62,495	2899
217,587	215,088	163,811	322,947	778,408	4,250	47,781	207,618	725,983	29
154,624	151,974	113,829	223,116	570,791	3,950	35,293	145,806	535,781	2911
31,315	32,662	27,967	53,636	119,165	270	4,266	32,819	1,010,014	293
428	854	548	581	1,471	...	46	3,100	10,251	2931
30,887	31,808	27,419	53,054	117,693	270	4,220	29,719	90,763	2932
21,419	20,273	15,768	33,638	63,372	30	4,300	19,291	58,117	295
4,972	4,576	3,260	6,688	12,508	30	1,077	2,785	8,565	2951
16,447	15,697	12,507	26,950	50,863	...	3,223	16,506	49,552	2952
10,229	10,179	6,246	12,556	25,079	...	3,923	9,702	31,071	299
8,224	8,090	4,702	9,414	18,912	...	3,457	8,002	26,263	2992
2,005	2,089	1,544	3,141	6,167	...	465	1,697	4,808	2999
244,529	253,277	196,238	377,414	775,499	3,460	46,828	258,237	781,378	30
93,461	93,972	73,976	137,981	334,104	3,390	15,381	115,657	390,841	3011
17,949	19,737	15,773	30,317	51,296	10	2,539	28,125	72,666	3021
2,959	2,993	2,460	4,602	9,671	10	483	2,070	6,849	3031
130,160	136,575	104,028	204,513	380,427	50	28,425	112,385	311,022	3099
363,078	360,262	321,161	586,857	833,694	120	35,297	383,264	873,746	31
43,355	43,415	38,662	75,689	137,487	20	4,786	53,261	156,632	3111
4,409	4,595	3,342	6,513	11,484	...	1,234	5,032	13,441	3121
19,846	20,194	17,641	32,533	44,231	10	2,408	22,077	47,793	3131
234,152	228,721	209,568	373,455	513,053	80	20,607	240,315	516,879	314
222,598	216,893	199,907	356,681	490,142	80	19,388	230,882	496,990	3141
11,554	11,828	9,661	16,773	22,911	...	1,218	9,433	19,889	3142
7,499	7,592	6,182	10,433	12,345	...	735	11,577	20,798	315
5,126	5,118	3,969	6,518	7,642	...	469	8,857	15,641	3151
2,373	2,474	2,212	3,915	4,702	...	267	2,720	5,157	3152
16,896	16,730	13,960	27,417	39,753	10	1,886	16,002	41,055	3161
30,876	32,684	26,693	50,978	62,947	...	2,851	25,984	57,266	317
23,844	24,653	20,911	39,942	49,620	...	1,970	20,378	45,664	3171
7,032	8,031	5,782	11,035	13,326	...	881	5,606	11,602	3172
6,045	6,331	5,109	9,835	12,392	...	791	9,016	19,882	319
1,303	1,179	1,113	2,168	2,690	...	176	2,861	6,294	3192
4,742	5,152	3,996	7,667	9,702	...	615	6,155	13,588	3199

Table 3.—PROPRIETORS AND PARTNERS, EMPLOYMENT, PAYROLLS, AND MAN-HOURS,

Code No.	Industry and industry group	1954				
		Number of proprietors and partners	All employees			
			Number	Payroll (\$1,000)	Employment in 4 selected months	
					March	May
32	Stone, clay, and glass products.....	7,843	491,814	1,938,085	487,987	487,264
3211	Flat glass.....	...	24,559	132,509	23,762	23,437
322	Pressed and blown glassware.....	172	91,334	354,568	92,695	92,658
3221	Glass containers.....	1	49,410	195,944	49,575	50,423
3229	Pressed and blown glassware, n.e.c.....	171	41,924	158,623	43,120	42,235
3231	Products of purchased glass.....	580	21,614	87,529	21,550	20,997
3241	Cement, hydraulic.....	...	39,769	167,659	39,068	39,249
325	Structural clay products.....	375	72,814	267,165	70,716	72,469
3251	Brick and hollow tile.....	201	32,426	114,740	30,151	32,437
3253	Floor and wall tile.....	16	11,265	43,488	11,264	11,270
3254	Sewer pipe.....	2	9,637	35,446	9,393	9,562
3255	Clay refractories.....	27	14,463	55,604	15,138	14,151
3259	Structural clay products, n.e.c.....	129	5,022	17,887	4,770	5,049
326	Pottery and related products.....	713	50,934	173,562	53,459	49,026
3261	Vitreous plumbing fixtures.....	3	9,200	40,541	8,849	8,747
3262	Vitreous-china food utensils.....	11	8,704	28,161	8,736	8,667
3263	Earthenware food utensils.....	15	13,335	38,742	15,684	12,864
3264	Porcelain electrical supplies.....	9	9,550	37,679	9,919	9,392
3265	China decorating for the trade.....	48	497	1,304	510	463
3269	Pottery products, n.e.c.....	627	9,647	27,134	9,761	8,893
327	Concrete and plaster products.....	4,615	89,610	340,287	84,950	89,469
3271	Concrete products.....	4,503	60,410	216,954	56,095	60,844
3272	Gypsum products.....	25	10,966	48,639	10,961	10,830
3274	Lime.....	71	7,989	30,645	7,973	7,916
3275	Mineral wool.....	16	10,244	44,049	9,921	9,879
3281	Cut-stone and stone products.....	741	21,576	78,240	20,849	21,480
329	Nonmetallic mineral products, n.e.c.....	647	79,598	336,563	80,938	78,479
3291	Abrasive products.....	120	22,345	101,218	22,811	22,347
3292	Asbestos products.....	13	21,977	92,413	21,868	21,694
3293	Gaskets and asbestos insulations.....	99	12,807	55,115	13,287	12,374
3295	Minerals: ground or treated.....	106	7,699	32,404	7,571	7,677
3297	Nonclay refractories.....	7	8,559	34,260	9,104	8,281
3298	Statuary and art goods.....	258	1,726	5,315	1,711	1,688
3299	Nonmetallic mineral products, n.e.c.....	44	4,483	15,835	4,586	4,418
33	Primary metal industries.....	2,402	1,117,059	5,097,466	1,144,060	1,112,304
331	Blast furnaces and steel mills.....	1	530,051	2,469,967	544,048	527,261
3312	Blast furnaces and steel mills.....	...	518,690	2,418,631	532,629	516,280
3313	Electrometallurgical products.....	1	11,361	51,332	11,419	10,981
332	Iron and steel foundries.....	646	212,365	895,728	220,084	213,751
3321	Gray-iron foundries.....	610	133,914	557,535	136,798	134,808
3322	Malleable-iron foundries.....	1	23,378	96,888	23,915	23,512
3323	Steel foundries.....	35	55,073	241,305	59,371	55,431
333	Primary nonferrous metals.....	12	54,497	244,634	54,129	54,359
3331	Primary copper.....	...	13,818	59,783	13,519	13,628
3332	Primary lead.....	...	4,063	17,393	4,079	4,093
3333	Primary zinc.....	...	10,470	44,042	10,363	10,293
3334	Primary aluminum.....	...	20,626	96,813	20,578	20,713
3339	Primary nonferrous metals, n.e.c.....	12	5,519	26,601	5,590	5,632
3341	Secondary nonferrous metals.....	147	15,775	71,707	15,679	15,662
335	Nonferrous rolling and drawing.....	36	89,090	410,320	87,784	87,725
3351	Copper rolling and drawing.....	7	41,906	195,225	41,808	41,471
3352	Aluminum rolling and drawing.....	17	36,803	164,938	35,776	36,080
3359	Rolling and drawing, n.e.c.....	12	10,381	50,157	10,200	10,174
3361	Nonferrous foundries.....	1,225	73,487	327,906	76,102	72,317
339	Primary metal industries, n.e.c.....	335	141,790	677,201	146,234	141,229
3391	Iron and steel forgings.....	78	39,771	201,938	42,357	39,824
3392	Wire drawing.....	31	54,873	250,558	55,460	54,403
3393	Welded and heavy-riveted pipe.....	14	22,085	108,374	22,258	22,068
3399	Primary metal industries, n.e.c.....	212	25,060	116,330	26,159	24,934
34	Fabricated metal products.....	13,908	1,019,406	4,397,337	1,023,966	1,012,563
3411	Tin cans and other tinware.....	37	55,234	245,134	54,320	56,448

See footnotes at end of table.

EMPLOYMENT AND PAYROLLS

202-15

FOR INDUSTRY GROUPS AND FOR INDUSTRIES: 1954 AND 1947—Continued

1954—Continued							1947, all employees		Code No.
All employees—Continued		Production workers			Force account construction workers, number (average for the year)	Administrative, supervisory, sales, technical, office and all other employees, number (average for the year)	Number	Payroll (\$1,000)	
Employment in 4 selected months—Continued		Number	Man-hours, total (1,000)	Wages (\$1,000)					
August	November								
492,950 24,163	498,995 26,872	412,031 21,389	827,012 44,344	1,496,029 114,966	1,470 ...	78,313 3,170	461,037 25,268	1,206,903 77,940	32 3211
89,196 50,145 39,051	90,785 47,496 43,289	79,082 44,076 35,006	154,346 87,672 66,673	287,883 166,107 121,776	30 10 20	12,222 5,324 6,898	89,302 47,132 42,170	230,287 126,503 103,784	322 3221 3229
21,351 40,504	22,556 40,253	18,203 34,036	36,377 70,839	68,285 134,777	20 270	3,391 5,463	23,920 35,662	61,508 98,626	3231 3241
74,177 33,915 11,112 9,892 14,069 5,189	73,886 33,200 11,412 9,699 14,496 5,079	63,565 28,751 9,627 8,686 12,204 4,296	129,764 61,048 19,706 17,171 22,783 9,054	213,839 93,114 33,718 29,615 43,006 14,385	410 130 ... 40 220 20	8,839 3,545 1,638 911 2,039 706	69,258 29,617 6,828 9,105 17,963 5,745	169,153 69,399 16,335 22,421 47,048 13,950	325 3251 3253 3254 3255 3259
49,276 9,361 8,611 11,932 9,340 479 9,553	51,968 9,844 8,801 12,861 9,549 533 10,380	44,762 7,785 7,693 12,333 7,990 437 8,521	82,229 15,676 14,061 19,467 15,847 864 16,313	139,277 32,987 22,622 32,468 28,629 1,033 21,536	50 40 ... 10	6,122 1,415 1,011 1,002 1,520 60 1,116	58,006 7,831 11,100 16,747 11,547 1,048 9,733	146,962 24,615 26,849 42,091 30,463 2,471 20,473	326 3261 3262 3263 3264 3265 3269
93,425 63,832 11,001 8,081 10,511	90,591 60,868 11,075 7,984 10,664	70,328 46,659 9,278 6,835 7,555	149,022 96,707 21,927 14,456 15,931	241,437 146,075 39,715 24,454 31,191	610 550 20 10 30	18,672 13,201 1,668 1,144 2,659	70,176 46,821 7,472 7,009 8,874	169,559 106,484 21,384 18,767 22,924	327 3271 3272 3274 3275
22,087	21,890	18,410	36,721	60,650	60	3,106	9,880	25,922	3281
78,771 22,031 22,170 12,290 7,948 8,337 1,704 4,291	80,194 22,193 22,177 13,276 7,600 8,514 1,799 4,635	62,253 15,756 17,760 10,128 6,401 7,150 1,450 3,605	123,367 30,417 35,985 20,340 13,784 12,890 2,822 7,126	234,912 62,040 70,319 37,241 24,312 26,124 3,932 10,943	20 20	17,325 6,589 4,217 2,679 1,298 1,389 276 878	79,565 21,042 21,595 13,178 8,873 10,273 2,025 2,579	226,946 67,114 60,529 36,667 24,126 27,783 4,268 6,459	329 3291 3292 3293 3295 3297 3298 3299
1,103,135 526,396 515,037 11,359	1,108,710 522,498 510,813 11,685	938,511 449,800 440,966 8,834	1,812,027 843,684 826,070 17,614	3,985,548 1,969,629 1,932,734 36,895	6,500 5,540 5,540 ...	172,048 74,711 72,184 2,527	1,158,158 545,724 536,096 9,628	3,601,791 1,732,428 1,703,143 29,285	33 331 3312 3313
208,458 131,749 22,822 53,887	207,165 132,301 23,261 51,603	184,149 118,288 20,205 45,655	354,224 230,234 38,306 85,684	716,414 459,049 78,004 179,361	90 40 ... 50	28,126 15,586 3,173 9,368	266,010 512,245 29,862 62,335	789,717 1,732,428 90,811 186,661	332 3321 3322 3323
55,165 14,096 4,105 10,504 21,004 5,456	54,330 14,031 3,974 10,720 20,207 5,398	44,884 11,705 3,312 8,638 16,982 4,246	90,386 23,596 6,659 16,546 35,335 8,249	191,756 48,442 13,142 34,104 77,174 18,892	520 250 ... 70 20 180	9,093 1,863 751 1,762 3,624 1,093	43,117 14,629 4,663 12,424 8,919 2,482	127,705 44,790 14,082 35,476 26,398 6,959	333 3331 3332 3333 3334 3339
15,487	16,271	12,204	25,121	46,711	...	3,571	18,089	55,897	3341
88,913 40,983 37,575 10,355	91,939 43,362 37,782 10,795	71,527 34,072 29,795 7,660	144,596 68,017 60,652 15,926	305,336 147,874 125,617 31,844	... ... ... ...	17,563 7,834 7,008 2,721	88,824 53,891 27,365 7,568	264,117 166,148 73,665 24,304	335 3351 3352 3359
70,689	74,840	61,573	124,041	251,374	170	11,744	66,798	203,314	3361
138,027 38,243 53,410 21,893 24,481	141,667 38,660 56,219 22,121 24,667	114,370 33,012 43,246 18,388 19,723	229,972 65,120 87,182 37,473 40,195	504,324 155,311 182,385 83,472 83,154	180 ... 130 20 30	27,240 6,759 11,497 3,677 5,307	129,596 36,724 55,026 15,711 22,135	428,613 128,198 175,514 52,651 72,250	339 3391 3392 3393 3399
1,012,246 58,678	1,028,802 51,490	821,172 48,008	1,652,366 97,574	3,174,186 202,112	3,020 50	195,214 7,176	973,174 46,760	2,833,684 126,941	34 3411

Table 3.—PROPRIETORS AND PARTNERS, EMPLOYMENT, PAYROLLS, AND MAN-HOURS,

Code No.	Industry and industry group	Number of proprietors and partners	1954			
			All employees			
			Number	Payroll (\$1,000)	Employment in 4 selected months	
					March	May
	Fabricated metal products—Continued					
342	Cutlery, tools, and hardware.....	1,019	143,676	599,952	146,948	143,894
3421	Cutlery.....	91	15,102	56,062	16,160	15,468
3422	Edge tools.....	149	7,108	29,174	7,147	7,030
3423	Hand tools, n.e.c.....	267	23,385	93,426	23,965	23,416
3424	Files.....	14	2,904	11,538	3,000	3,002
3425	Handsaws and saw blades.....	45	6,879	29,287	7,170	6,938
3429	Hardware, n.e.c.....	453	88,296	380,464	89,506	88,040
343	Heating and plumbing equipment.....	444	105,888	451,342	104,652	103,171
3431	Plumbing fixtures and fittings.....	141	30,612	132,070	30,242	28,724
3439	Heating and cooking equipment, n.e.c.....	303	75,276	319,272	74,410	74,447
344	Structural metal products.....	4,671	284,124	1,280,903	279,226	283,151
3441	Structural and ornamental work.....	1,943	116,274	527,386	113,817	116,231
3442	Metal doors, sash, and trim.....	491	43,284	184,174	39,289	41,728
3443	Boiler shop products.....	472	74,373	342,069	77,668	74,753
3444	Sheet-metal work.....	1,765	50,190	227,272	48,452	50,439
346	Metal stamping and coating.....	3,760	183,844	777,393	189,101	183,273
3461	Vitreous-enamelled products.....	11	7,272	25,366	7,362	7,424
3463	Metal stampings.....	1,144	128,200	569,467	133,271	128,257
3465	Enameling and lacquering.....	269	5,503	19,134	5,611	5,328
3466	Galvanizing.....	79	3,178	12,561	3,214	3,157
3467	Engraving on metal.....	231	3,624	13,930	3,735	3,597
3468	Plating and polishing.....	2,026	36,066	136,933	35,908	35,510
3471	Lighting fixtures.....	719	45,078	181,951	45,066	43,311
348	Fabricated wire products.....	816	62,630	254,324	63,024	61,866
3481	Nails and spikes.....	18	2,701	10,420	2,687	2,697
3489	Wirework, n.e.c.....	798	59,929	243,904	60,337	59,169
349	Metal products, n.e.c.....	2,442	138,930	606,334	141,629	137,449
3491	Metal barrels, drums, and pails.....	12	10,585	48,501	10,818	10,788
3492	Safes and vaults.....	16	3,442	15,030	3,422	3,345
3493	Steel springs.....	58	7,078	33,304	6,694	6,565
3494	Bolts, nuts, washers, and rivets.....	184	53,729	246,235	54,317	53,541
3495	Screw machine products.....	1,421	35,009	151,444	37,924	35,107
3496	Collapsible tubes.....	7	4,302	14,934	4,299	4,179
3497	Metal foil.....	23	6,713	28,693	6,019	6,414
3499	Fabricated metal products, n.e.c.....	721	18,069	68,191	18,136	17,510
35	Machinery, except electrical.....	16,558	1,541,675	7,190,563	1,597,291	1,565,272
351	Engines and turbines.....	29	81,955	399,986	86,350	84,310
3511	Steam engines and turbines.....	1	30,178	158,861	31,244	30,594
3519	Internal combustion engines.....	28	51,777	241,125	55,106	53,716
352	Tractors and farm machinery.....	846	139,118	602,151	145,198	145,674
3521	Tractors.....	63	64,742	287,118	65,492	67,381
3522	Farm machinery (except tractors).....	783	74,376	315,033	79,706	78,293
353	Construction and mining machinery.....	375	109,385	509,501	111,348	110,172
3531	Construction and mining machinery.....	220	75,698	347,698	77,990	76,320
3532	Oil-field machinery and tools.....	155	33,687	161,802	33,358	33,852
354	Metalworking machinery.....	4,757	262,724	1,396,917	278,780	267,523
3541	Machine tools.....	347	80,959	432,290	88,273	82,479
3542	Metalworking machinery.....	197	59,468	293,799	62,485	60,947
3544	Special dies and tools.....	3,499	77,418	458,162	79,088	78,242
3545	Metalworking machinery attachments.....	714	44,877	212,665	48,934	45,855
355	Special-industry machinery, n.e.c.....	1,350	165,746	754,538	169,504	166,478
3551	Food-products machinery.....	302	33,205	152,518	34,066	33,521
3552	Textile machinery.....	252	36,595	145,253	37,349	36,857
3553	Woodworking machinery.....	128	11,973	53,821	12,046	11,907
3554	Paper-industries machinery.....	53	15,003	73,713	15,345	15,144
3555	Printing-trades machinery.....	164	21,960	110,679	22,571	22,089
3559	Special-industry machinery, n.e.c.....	451	47,007	218,553	48,127	46,960
356	General industrial machinery.....	1,019	223,917	1,046,942	228,561	224,597
3561	Pumps and compressors.....	183	60,324	272,632	60,678	60,593
3562	Elevators and escalators.....	48	10,257	49,518	10,333	10,249
3563	Conveyors.....	154	32,370	161,414	32,713	32,613
3564	Blowers and fans.....	87	18,125	80,850	18,666	18,235
3565	Industrial trucks and tractors.....	121	15,797	71,824	15,937	15,600
3566	Power-transmission equipment.....	176	49,580	231,636	52,105	49,937
3567	Industrial furnaces and ovens.....	65	8,415	42,351	8,645	8,404
3568	Mechanical stokers.....	11	1,118	5,138	1,121	1,106
3569	General industrial machinery, n.e.c.....	174	27,927	131,575	28,363	27,860

See footnotes at end of table.

EMPLOYMENT AND PAYROLLS

202-17

FOR INDUSTRY GROUPS AND FOR INDUSTRIES: 1954 AND 1947—Continued

1954—Continued							1947, all employees		Code No.
All employees—Continued		Production workers			Force account construction workers, number (average for the year)	Administrative, supervisory, sales, technical, office and all other employees, number (average for the year)	Number	Payroll (\$1,000)	
Employment in 4 selected months—Continued		Number	Man-hours, total (1,000)	Wages (\$1,000)					
August	November								
139,083	144,768	117,796	235,874	444,178	100	25,780	154,507	433,483	34
14,984	13,795	12,362	24,578	39,609	...	2,740	20,248	54,142	3421
7,034	7,219	5,917	11,614	21,428	...	1,191	8,540	23,725	3422
22,590	23,569	18,814	36,655	66,701	80	4,491	35,359	102,245	3423
2,801	2,814	2,667	4,784	10,141	...	237	4,446	11,213	3424
6,629	6,778	5,327	10,320	19,927	...	1,552	8,441	25,600	3425
85,045	90,593	72,708	147,920	286,371	20	15,568	77,473	216,558	3429
106,839	108,890	82,806	162,498	316,577	1,700	21,382	151,565	441,192	343
30,750	32,732	25,675	50,706	102,346	...	4,937	34,748	98,316	3431
76,089	76,158	57,131	111,792	214,231	1,700	16,445	116,817	342,876	3439
290,261	283,850	216,909	440,025	873,919	850	66,365	213,020	657,799	344
119,551	115,497	88,065	179,901	352,662	410	27,799	79,077	246,766	3441
45,280	46,841	33,028	66,490	125,317	60	10,196	23,336	72,176	3442
73,342	71,730	57,217	115,994	239,967	200	16,956	68,232	207,118	3443
52,088	49,782	38,597	77,639	155,971	180	11,413	42,375	131,739	3444
176,432	186,567	154,010	309,364	579,935	120	29,714	184,020	524,760	346
7,064	7,237	6,040	11,089	19,270	...	1,232	11,560	26,165	3461
122,631	128,641	106,298	214,598	421,482	40	21,862	133,401	392,474	3463
5,409	5,665	4,735	9,074	14,426	...	768	4,025	10,188	3465
3,207	3,136	2,685	5,604	9,232	...	493	2,916	8,231	3466
3,473	3,689	3,030	6,119	10,081	...	594	3,492	10,199	3467
34,648	38,199	31,221	62,878	105,443	80	4,765	28,626	77,503	3468
44,017	47,916	36,361	73,660	128,759	10	8,706	46,891	131,279	3471
60,911	64,720	52,391	104,105	189,385	70	10,169	60,344	170,631	348
2,688	2,734	2,324	4,776	7,550	...	377	3,371	8,872	3481
58,223	61,986	50,067	99,329	181,835	70	9,792	56,973	161,759	3489
136,025	140,601	112,888	229,264	439,318	120	25,922	116,067	347,599	349
10,572	10,162	8,687	17,924	37,058	...	1,898	10,927	31,368	3491
3,429	3,573	2,581	5,050	10,341	...	861	3,754	10,117	3492
6,968	8,083	5,650	11,429	24,510	...	1,428	7,760	24,938	3493
52,556	54,502	42,309	86,427	173,019	30	11,389	49,235	151,514	3494
33,020	33,984	29,694	61,030	112,641	20	5,295	28,623	87,292	3495
4,344	4,388	3,856	7,643	11,783	...	446	3,866	9,415	3496
7,232	7,185	5,550	11,529	21,981	60	1,103	4,269	11,765	3497
17,904	18,724	14,556	28,228	47,982	10	3,503	7,633	21,190	3499
1,505,824	1,498,224	1,171,323	2,369,610	4,979,972	1,120	369,232	1,552,135	4,830,125	35
78,374	78,783	60,656	121,960	278,347	20	21,279	87,688	280,424	351
29,433	29,439	21,382	44,821	109,650	...	8,796	22,173	73,550	3511
48,941	49,344	39,273	77,139	168,696	20	12,483	65,515	206,874	3519
134,004	131,595	105,514	205,067	423,692	160	33,444	171,461	494,724	352
62,573	63,521	49,543	95,261	205,993	70	15,129	77,317	227,767	3521
71,431	68,074	55,971	109,806	217,698	90	18,315	94,144	266,957	3522
109,252	106,768	79,706	160,371	327,957	50	29,629	113,871	355,367	353
75,291	73,190	55,563	110,794	225,637	40	20,095	84,694	263,835	3531
33,961	33,578	24,143	49,577	102,320	10	9,534	29,177	91,532	3532
255,815	248,768	206,327	442,373	1,018,262	160	56,237	220,902	754,164	354
77,899	75,183	62,106	133,247	302,682	...	18,853	70,001	233,997	3541
58,209	56,229	44,277	92,342	202,459	10	15,181	54,988	182,068	3542
76,892	75,450	65,475	146,912	366,265	80	11,863	95,913	338,099	3544
42,815	41,906	34,467	69,871	146,854	70	10,340	...	...	3545
164,360	162,626	122,581	248,598	498,197	60	43,105	207,321	652,983	355
32,716	32,517	23,717	49,009	98,570	20	9,468	36,927	113,823	3551
36,040	36,133	28,093	55,733	98,668	20	8,482	53,583	158,446	3552
11,824	12,114	8,839	17,771	35,224	...	3,134	16,233	50,488	3553
14,843	14,678	11,516	23,745	50,057	...	3,487	17,088	57,749	3554
21,734	21,445	16,416	33,027	74,515	...	5,544	24,880	84,750	3555
47,203	45,739	33,997	69,310	141,160	20	12,990	58,610	187,727	3559
222,710	219,781	156,896	317,117	652,776	460	66,561	218,983	696,072	356
59,950	60,075	41,269	82,859	168,613	10	19,045	56,142	172,857	3561
10,225	10,220	7,017	14,164	31,766	80	3,160	10,227	33,998	3562
33,061	31,091	22,265	46,039	95,786	60	10,045	24,578	84,084	3563
17,723	17,876	13,724	27,349	54,033	60	4,341	14,794	44,202	3564
16,079	15,574	11,061	22,123	44,813	...	4,736	13,926	41,908	3565
48,196	48,082	37,903	76,209	160,037	20	11,657	53,995	172,466	3566
8,340	8,270	5,050	10,403	20,975	10	3,355	6,362	21,784	3567
1,099	1,144	766	1,453	2,820	...	352	4,111	12,371	3568
28,037	27,449	17,837	36,513	73,929	220	9,870	34,848	112,402	3569

Table 3.—PROPRIETORS AND PARTNERS, EMPLOYMENT, PAYROLLS, AND MAN-HOURS,

Code No.	Industry and industry group	1954				
		Number of proprietors and partners	All employees			
			Number	Payroll (\$1,000)	Employment in 4 selected months	
					March	May
	Machinery, except electrical—Continued					
357	Office and store machines.....	121	101,294	455,643	101,854	100,434
3571	Computing and related machines.....	32	56,692	275,809	56,852	56,020
3572	Typewriters.....	2	18,435	67,399	18,293	17,696
3576	Scales and balances.....	30	5,381	21,276	5,464	5,226
3579	Office and store machines, n.e.c.....	57	20,785	91,159	21,245	21,492
358	Service and household machines.....	395	196,534	875,046	206,853	205,170
3581	Domestic laundry equipment.....	8	22,105	98,556	23,038	20,760
3582	Laundry and dry-cleaning machinery.....	44	6,543	28,630	7,057	6,729
3583	Sewing machines.....	46	12,414	56,552	13,067	13,113
3584	Vacuum cleaners.....	15	8,383	38,867	8,273	8,318
3585	Refrigeration machinery.....	189	128,283	567,118	136,425	137,540
3586	Measuring and dispensing pumps.....	9	8,367	38,531	8,649	8,433
3589	Service and household machines, n.e.c.....	84	10,437	46,791	10,344	10,277
359	Miscellaneous machinery parts.....	7,666	260,998	1,149,836	268,843	260,914
3591	Valves and fittings, except plumbing.....	175	75,016	333,213	75,865	74,169
3592	Fabricated pipe and fittings.....	108	12,670	62,092	12,851	12,851
3593	Ball and roller bearings.....	17	49,720	214,088	52,332	50,279
3594	Industrial patterns and molds.....	1,725	19,864	98,265	20,010	20,039
3599	Machine shops.....	5,641	103,727	442,177	107,785	103,576
36	Electrical machinery.....	1,936	959,126	3,950,994	974,226	945,590
361	Electrical industrial apparatus.....	644	340,000	1,494,109	351,223	340,992
3611	Wiring devices and supplies.....	152	43,195	168,474	43,540	42,586
3612	Carbon and graphite products.....	13	8,297	35,976	8,850	8,412
3613	Electrical measuring instruments.....	98	33,049	145,131	33,405	32,598
3614	Motors and generators.....	75	112,007	494,556	118,459	113,891
3615	Transformers.....	52	40,956	186,491	41,998	41,323
3616	Electrical control apparatus.....	118	79,314	361,398	81,185	79,209
3617	Electrical welding apparatus.....	59	8,186	45,719	7,989	8,223
3619	Electrical industrial apparatus, n.e.c.....	77	14,996	56,361	15,797	14,750
3621	Electrical appliances.....	154	48,582	201,827	49,926	47,295
3631	Insulated wire and cable.....	24	14,410	59,011	14,062	14,176
3641	Engine electrical equipment.....	60	46,349	200,279	49,019	46,751
3651	Electric lamps (bulbs).....	7	21,963	78,921	22,830	21,975
366	Communication equipment.....	715	445,817	1,752,211	445,605	432,761
3661	Radios and related products.....	593	293,998	1,130,378	292,180	282,346
3662	Electronic tubes.....	22	70,950	254,854	68,821	68,376
3663	Phonograph records.....	52	6,152	23,312	6,285	5,766
3664	Telephone and telegraph equipment.....	6	64,663	300,589	68,079	66,071
3669	Communication equipment, n.e.c.....	42	10,053	43,079	10,240	10,202
369	Electrical products, n.e.c.....	332	42,004	164,634	41,561	41,640
3691	Storage batteries.....	176	15,670	66,872	15,251	15,651
3692	Primary batteries.....	...	10,773	36,633	11,025	10,787
3693	X-ray and therapeutic apparatus.....	40	7,054	32,583	7,336	7,105
3699	Electrical products, n.e.c.....	116	8,506	28,545	7,949	8,097
37	Transportation equipment.....	2,976	1,704,572	8,295,773	1,776,569	1,717,720
371	Motor vehicles and equipment.....	1,088	695,475	3,407,657	724,356	699,846
3713	Truck and bus bodies.....	396	18,689	76,050	18,265	19,023
3715	Truck trailers.....	45	16,381	72,904	16,325	16,619
3716	Automobile trailers.....	143	11,131	43,874	10,343	11,002
3717	Motor vehicles and parts.....	504	649,274	3,214,827	679,423	653,202
372	Aircraft and parts.....	738	822,470	4,048,811	845,665	823,865
3721	Aircraft.....	...	457,618	2,277,320	455,381	454,234
3722	Aircraft engines.....	62	167,383	819,181	181,564	169,921
3723	Aircraft propellers.....	7	16,523	78,058	17,994	16,802
3729	Aircraft equipment, n.e.c.....	669	180,946	874,252	190,726	182,908
373	Ships and boats.....	1,055	126,352	562,070	135,731	132,361
3731	Ship building and repairing.....	109	109,451	504,470	118,280	114,225
3732	Boat building and repairing.....	946	16,900	57,599	17,451	18,136
374	Railroad equipment.....	6	51,575	243,536	63,008	53,312
3741	Locomotives and parts.....	3	20,891	104,274	25,661	22,478
3742	Railroad and street cars.....	3	30,683	139,261	37,347	30,834
3751	Motorecycles and bicycles.....	14	7,061	28,060	6,227	6,714
3799	Transportation equipment, n.e.c.....	75	1,636	5,637	1,582	1,622

See footnotes at end of table.

EMPLOYMENT AND PAYROLLS

202-19

FOR INDUSTRY GROUPS AND FOR INDUSTRIES: 1954 AND 1947—Continued

1954—Continued							1947, all employees		Code No.
All employees—Continued		Production workers			Force account construction workers, number (average for the year)	Administrative, supervisory, sales, technical, office and all other employees, number (average for the year)	Number	Payroll (\$1,000)	
Employment in 4 selected months—Continued		Number	Man-hours, total (1,000)	Wages (\$1,000)					
August	November								
99,523	103,361	81,631	160,582	336,831	...	19,663	97,824	304,060	357
55,967	57,930	45,014	88,484	200,953	...	11,678	45,611	152,678	3571
18,352	19,398	16,699	32,589	60,075	...	1,736	26,604	73,177	3572
5,368	5,467	4,074	7,636	14,163	...	1,307	6,526	18,849	3576
19,836	20,566	15,843	31,871	61,639	...	4,942	19,083	59,356	3579
185,067	189,034	148,983	294,009	600,548	40	47,511	219,566	658,058	358
21,023	23,597	16,710	32,497	68,066	...	5,394	28,403	85,596	3581
6,230	6,156	4,659	9,509	18,243	...	1,884	9,093	27,435	3582
11,155	12,321	9,443	19,142	40,697	...	2,971	15,305	48,484	3583
8,300	8,642	6,408	12,717	26,903	...	1,975	14,880	44,797	3584
119,502	119,664	98,921	194,527	396,982	40	29,321	128,677	378,594	3585
8,331	8,054	5,893	11,790	23,658	...	2,474	12,083	36,972	3586
10,526	10,600	6,944	13,825	25,997	...	3,493	11,125	36,180	3589
256,719	257,508	209,026	419,529	843,358	170	51,802	214,519	634,273	359
74,892	75,136	58,425	115,312	235,730	30	16,561	79,713	237,921	3591
12,435	12,544	9,943	19,352	43,945	60	2,667	10,568	33,362	3592
47,687	48,580	39,974	78,233	159,813	...	9,746	52,174	153,333	3593
20,167	19,240	16,900	35,230	77,840	30	2,933	9,664	35,928	3594
101,538	102,008	83,782	171,400	326,031	50	19,895	62,400	173,729	3599
939,779	976,868	722,443	1,422,339	2,645,588	1,100	235,583	796,357	2,258,657	36
332,230	335,535	250,072	493,743	984,284	360	89,568	315,466	924,936	361
42,507	44,147	34,882	68,944	122,166	20	8,293	39,160	104,095	3611
8,164	7,760	6,352	12,600	24,190	10	1,935	7,818	22,028	3612
32,420	33,772	24,233	47,679	90,873	...	8,816	20,926	60,661	3613
107,646	108,014	82,411	161,343	334,271	300	29,296	125,300	368,461	3614
40,552	39,952	29,234	58,414	121,715	...	11,722	36,635	107,978	3615
78,168	78,695	56,183	111,372	228,245	...	23,131	67,461	204,081	3616
8,392	8,140	5,484	11,400	26,427	...	2,702	7,265	29,151	3617
14,381	15,055	11,293	21,988	36,394	30	3,673	10,901	28,481	3619
46,553	50,552	38,661	75,562	145,587	50	9,871	44,105	124,275	3621
14,336	15,064	11,579	26,672	42,142	...	2,831	21,902	59,570	3631
43,029	46,595	37,219	74,147	146,769	...	9,130	44,450	126,737	3641
21,384	21,661	19,172	36,750	63,205	...	2,791	23,842	57,914	3651
439,677	465,219	333,364	653,130	1,152,459	690	111,763	303,391	847,247	366
289,114	312,353	220,867	435,056	742,732	640	72,491	178,595	462,207	3661
70,974	75,628	57,856	112,052	186,882	50	13,044	27,703	65,420	3662
6,147	6,408	4,740	9,451	15,685	...	1,412	10,045	29,193	3663
63,415	61,087	43,717	84,627	184,124	...	20,946	76,072	258,567	3664
10,027	9,743	6,184	11,942	23,035	...	3,869	10,976	31,860	3669
42,570	42,242	32,373	62,332	111,139	...	9,631	43,201	117,978	369
16,123	15,654	11,899	23,244	46,415	...	3,771	16,570	49,734	3691
10,968	10,312	8,893	16,814	27,427	...	1,880	10,261	24,463	3692
6,930	6,845	4,601	9,036	17,688	...	2,453	7,678	23,217	3693
8,549	9,431	6,979	13,236	19,608	...	1,527	8,692	20,564	3699
1,622,312	1,701,658	1,327,078	2,714,603	6,003,250	860	376,634	1,174,498	3,694,932	37
637,049	720,647	583,048	1,201,354	2,710,237	60	112,367	693,763	2,182,323	371
19,693	17,776	15,175	30,652	55,433	10	3,504	26,646	78,386	3713
16,506	16,072	13,023	26,197	52,352	30	3,328	12,488	36,287	3715
11,345	11,833	9,491	18,592	33,031	...	1,640	9,562	27,778	3716
589,505	674,966	545,359	1,125,912	2,569,419	20	103,895	645,067	2,039,872	3717
810,497	809,851	585,989	1,206,320	2,625,302	630	235,851	219,611	703,702	372
457,262	463,595	320,445	654,781	1,441,632	80	137,092	146,625	462,906	3721
159,720	158,325	117,277	243,536	522,850	520	49,586	50,423	166,308	3722
16,514	14,783	11,647	22,179	49,135	...	4,876	7,423	25,666	3723
177,001	173,148	136,619	285,823	611,683	30	44,297	15,140	48,822	3729
120,241	117,068	110,905	216,612	468,903	170	15,277	149,655	467,585	373
104,227	101,071	96,196	187,982	421,791	140	13,115	130,805	417,829	3731
16,014	15,997	14,709	28,630	47,112	30	2,161	18,850	49,756	3732
44,859	45,116	39,797	76,408	173,032	...	11,778	91,270	284,003	374
18,530	16,895	15,968	31,439	70,575	...	4,923	30,419	97,896	3741
26,329	28,221	23,828	44,969	102,457	...	6,855	60,851	186,107	3742
8,005	7,299	5,979	11,121	21,639	...	1,082	15,615	45,661	3751
1,661	1,677	1,359	2,786	4,135	...	277	4,584	11,658	3799

Table 3.—PROPRIETORS AND PARTNERS, EMPLOYMENT, PAYROLLS, AND MAN-HOURS,

Code No.	Industry and industry group	1954				
		Number of proprietors and partners	All employees			
			Number	Payroll (\$1,000)	Employment in 4 selected months	
					March	May
38	Instruments and related products.....	1,635	272,586	1,200,322	281,802	272,872
3811	Scientific instruments.....	168	45,315	217,831	47,578	45,366
3821	Mechanical measuring instruments.....	275	69,422	302,624	70,871	69,204
3831	Optical instruments and lenses.....	99	12,658	58,178	13,381	12,996
384	Medical equipment and supplies.....	671	38,122	149,465	38,696	38,275
3841	Surgical and medical instruments.....	115	6,562	23,223	6,618	6,595
3842	Surgical appliances and supplies.....	444	24,457	98,035	24,701	24,515
3843	Dental equipment and supplies.....	112	7,103	28,206	7,377	7,165
3851	Ophthalmic goods.....	117	18,464	64,536	19,277	18,547
3861	Photographic equipment.....	208	59,099	288,497	60,192	58,865
387	Watches and clocks.....	97	29,504	119,189	31,807	29,619
3871	Watches and clocks.....	69	25,708	103,232	27,665	26,140
3872	Watchcases.....	28	3,795	15,957	4,142	3,479
39	Miscellaneous manufactures ³	11,472	695,917	2,658,182	719,169	685,185
391	Jewelry and silverware.....	1,721	47,930	182,808	48,163	46,073
3911	Jewelry (precious metal).....	1,131	23,455	90,373	23,195	22,221
3912	Jewelers' findings.....	141	5,371	18,911	5,181	5,014
3913	Lapidary work.....	358	1,759	5,459	1,795	1,690
3914	Silverware and plated ware.....	82	17,345	68,064	17,992	17,148
393	Musical instruments and parts.....	119	15,407	61,219	15,227	14,732
3931	Pianos.....	1	5,759	24,079	5,682	5,406
3932	Organs.....	12	1,762	6,579	1,739	1,703
3933	Piano and organ parts.....	18	3,032	11,613	2,933	2,881
3939	Musical instruments, n.e.c.....	88	4,853	18,947	4,873	4,742
394	Toys and sporting goods.....	1,582	88,559	266,135	81,367	85,161
3941	Games and toys, n.e.c.....	488	38,242	113,208	33,810	36,405
3942	Dolls.....	364	15,119	38,938	11,290	13,476
3943	Children's vehicles.....	20	6,278	24,308	6,270	6,265
3949	Sporting and athletic goods.....	710	28,919	89,681	29,997	29,015
395	Office supplies.....	556	28,218	109,046	27,807	27,827
3951	Pens and mechanical pencils.....	71	10,879	44,123	10,292	10,629
3952	Lead pencils and crayons.....	19	5,029	17,135	4,981	5,067
3953	Hand stamps and stencils.....	386	5,654	21,857	5,758	5,600
3954	Artists' materials.....	55	1,913	6,585	2,021	1,815
3955	Carbon paper and inked ribbons.....	25	4,742	19,344	4,755	4,716
396	Costume jewelry and notions.....	1,827	66,675	200,398	65,407	61,861
3961	Costume jewelry.....	833	27,744	79,017	25,596	24,179
3962	Artificial flowers.....	413	7,306	17,299	7,892	6,672
3963	Buttons.....	388	8,471	23,235	8,552	8,057
3964	Needles, pins, and fasteners.....	193	23,152	80,846	23,367	22,953
3971	Plastics products, n.e.c.....	1,073	91,967	350,227	91,132	90,906
399	Miscellaneous manufactures ³	4,603	357,153	1,488,343	390,066	358,625
3981	Brooms and brushes.....	566	16,826	54,789	17,150	16,703
3982	Cork products.....	14	2,117	8,097	2,145	2,077
3983	Matches.....	1	6,191	21,308	6,793	6,070
3984	Candles.....	56	3,010	9,420	2,914	2,872
3985	Fireworks and pyrotechnics.....	32	2,637	7,443	2,830	2,933
3986	Jewelry and instrument cases.....	106	8,003	25,050	7,755	7,066
3987	Lamp shades.....	287	5,025	12,542	5,277	4,301
3988	Morticians' goods.....	346	16,729	59,233	17,033	16,584
3991	Beauty and barber-shop equipment.....	23	1,719	6,936	1,689	1,700
3992	Furs, dressed and dyed.....	103	2,459	16,420	3,411	3,443
3993	Signs and advertising displays.....	2,088	33,581	135,578	33,177	33,044
3994	Hairwork.....	110	1,708	4,440	1,357	1,654
3995	Umbrellas, parasols, and canes.....	109	3,210	9,364	3,250	3,252
3996	Tobacco pipes.....	22	1,521	4,768	1,478	1,493
3997	Soda-fountain and bar equipment.....	21	1,445	6,422	1,434	1,513
3999	Miscellaneous products, n.e.c.....	598	20,765	73,740	20,703	19,913
1951	Small arms.....	28	13,831	57,154	15,386	13,863
1961	Small arms ammunition.....	7	28,532	120,413	33,841	28,709
1900	Ordnance and accessories, except industries 1951 and 1961.....	86	186,828	855,214	212,443	191,435
	Administrative and auxiliary units.....	xxx	474,256	2,983,346	(NA)	(NA)

xxx Not applicable. NA Not available. ¹The 1947 figures are not comparable to the data shown for 1954 because of differences in Major Groups 20 and 24. The 1947 Census excluded plants processing and distributing milk which in 1954 are classified in Industry Group 202, Dairy Products; the 1947 Census figures also exclude establishments in S.I.C. Industry 2411, Logging Camps and Contractors, which are included in the scope of the 1954 Census. For comparable data see footnote 2 to Table 2.

EMPLOYMENT AND PAYROLLS

202-21

FOR INDUSTRY GROUPS AND FOR INDUSTRIES: 1954 AND 1947—Continued

1954—Continued							1947, all employees		Code No.
All employees—Continued		Production workers			Force account construction workers, number (average for the year)	Administrative, supervisory, sales, technical, office and all other employees, number (average for the year)	Number	Payroll (\$1,000)	
Employment in 4 selected months—Continued		Number	Man-hours, total (1,000)	Wages (\$1,000)					
August	November								
265,957	269,702	195,597	391,403	759,459	1,710	75,279	244,872	706,055	38
43,389	44,929	30,797	64,264	134,801	...	14,518	18,419	56,015	3811
68,227	69,386	48,229	97,903	189,887	...	21,193	60,481	173,888	3821
12,413	11,843	9,447	18,555	38,251	10	3,201	8,478	24,737	3831
37,780	37,738	27,112	53,915	90,264	50	10,960	39,127	111,019	384
6,532	6,503	5,267	11,012	17,398	...	1,295	6,980	20,297	3841
24,305	24,309	16,737	32,536	54,890	40	7,679	23,073	65,097	3842
6,943	6,926	5,107	10,366	17,974	10	1,986	9,074	25,625	3843
17,682	18,351	15,355	29,960	48,332	...	3,109	22,562	57,112	3851
58,865	58,469	41,063	81,066	177,117	1,630	16,406	55,624	172,973	3861
27,601	28,986	23,590	45,738	80,804	20	5,894	40,181	110,311	387
23,899	25,128	20,282	39,125	67,962	20	5,406	34,623	93,331	3871
3,702	3,858	3,308	6,612	12,841	...	487	5,558	16,980	3872
682,057	697,151	555,746	1,089,229	1,861,873	1,700	138,471	463,390	1,205,212	39
47,093	50,394	38,952	77,435	129,740	20	8,958	55,169	168,485	391
23,454	24,951	18,440	36,438	58,382	20	4,995	25,566	76,462	3911
5,366	5,924	4,542	9,281	13,414	...	829	6,056	17,350	3912
1,732	1,819	1,591	2,757	4,067	...	168	1,699	5,524	3913
16,541	17,700	14,379	28,957	53,876	...	2,966	21,848	69,149	3914
15,352	16,316	13,230	26,329	48,242	...	2,177	16,889	46,808	393
5,826	6,123	4,945	9,508	18,596	...	814	6,978	20,573	3931
1,746	1,861	1,521	3,151	5,264	...	241	1,337	3,362	3932
3,018	3,297	2,743	5,703	9,896	...	289	3,209	8,402	3933
4,762	5,035	4,020	7,965	14,484	...	833	5,365	14,471	3939
93,157	94,548	76,476	142,087	199,327	60	12,023	75,476	173,811	394
41,419	41,335	32,789	60,813	83,227	40	5,413	27,140	60,554	3941
17,339	18,371	13,792	24,618	30,657	...	1,327	9,797	21,847	3942
6,784	5,794	5,454	10,553	19,354	...	824	8,783	24,735	3943
27,615	29,048	24,439	46,101	66,087	20	4,459	29,756	66,675	3949
27,960	29,270	20,662	41,874	64,550	...	7,556	31,429	81,657	395
10,632	11,963	8,089	16,428	25,191	...	2,790	15,553	40,606	3951
5,121	4,946	3,794	7,775	10,802	...	1,235	6,279	14,726	3952
5,575	5,683	4,056	8,123	13,764	...	1,598	4,556	12,483	3953
1,895	1,919	1,467	2,875	4,033	...	446	1,360	3,220	3954
4,737	4,759	3,255	6,671	10,757	...	1,487	3,681	10,622	3955
67,193	72,238	57,282	108,747	146,050	10	9,383	66,024	153,803	396
28,859	32,344	24,269	46,679	58,445	10	3,465	25,371	59,487	3961
6,798	7,863	6,690	12,009	13,446	...	616	7,130	13,448	3962
8,349	8,928	7,430	14,123	17,483	...	1,041	10,564	22,077	3963
23,187	23,103	18,893	35,935	56,674	...	4,259	22,959	58,791	3964
90,015	95,813	75,689	152,179	248,975	230	16,048	58,400	156,369	3971
341,287	338,572	273,449	540,574	1,024,984	1,380	82,324	160,003	424,279	399
16,469	16,982	13,534	25,595	36,294	10	3,282	18,551	44,875	3981
2,065	2,184	1,771	3,507	6,233	20	326	2,485	6,802	3982
5,828	6,072	5,147	10,290	15,945	...	1,044	7,350	16,422	3983
3,023	3,230	2,289	4,716	6,112	...	721	2,405	5,596	3984
2,284	2,501	2,334	4,398	5,552	...	303	3,251	6,694	3985
7,938	9,254	6,437	12,438	16,979	...	1,566	7,212	15,845	3986
4,793	5,727	4,524	8,394	9,957	...	501	4,488	8,473	3987
16,687	16,612	13,302	26,499	40,001	10	3,416	22,375	60,002	3988
1,723	1,762	1,419	3,016	4,741	...	300	3,199	9,009	3991
3,574	3,408	3,005	4,822	13,108	...	454	6,904	25,766	3992
33,668	34,436	26,205	51,681	90,602	180	7,196	28,489	81,190	3993
1,889	1,935	1,463	2,583	3,252	...	245	1,170	2,436	3994
2,985	3,354	2,873	5,150	6,965	...	337	3,585	8,360	3995
1,509	1,604	1,337	2,501	3,561	...	184	3,140	8,810	3996
1,407	1,426	1,129	2,231	4,487	...	316	2,739	8,488	3997
20,327	22,115	16,336	31,582	48,010	...	4,428	22,727	58,000	3999
13,227	12,846	11,325	22,812	45,113	...	2,506	10,453	30,545	1951
26,324	25,253	21,932	43,566	91,308	160	6,440	8,050	22,091	1961
175,567	167,871	137,069	274,773	576,748	1,000	48,759	(NA)	(NA)	1900
(NA)	(NA)	xxx	xxx	xxx	xxx	474,256	(NA)	(NA)	--

²The average total employment figure is based on data reported for twelve months instead of the four selected months, March, May, August, and November, used for all other industries because of seasonal fluctuations in the industry. See Table 4 for employment for each of the twelve months.

³Includes privately owned and/or operated establishments classified in Major Industry Group 19, "Ordnance and Accessories." Establishments which are Government owned and operated are not included.

MANUFACTURES—SUMMARY STATISTICS

Table 4.—EMPLOYMENT BY MONTHS FOR SELECTED INDUSTRIES: 1954

Code	Industry	Average for the year ¹	January	Feb- ruary	March	April	May	June	July	August	Sep- tember	October	Novem- ber	Decem- ber
2015	Poultry dressing plants...	46,173	41,946	40,902	40,990	42,175	43,837	45,046	46,257	47,025	49,763	52,216	52,840	51,078
2031	Canned seafood.....	15,131	13,144	12,280	11,636	12,823	15,462	16,944	18,187	19,558	17,881	16,445	14,510	12,696
2032	Cured fish.....	1,726	1,678	1,606	1,665	1,943	1,982	1,642	1,481	1,597	1,772	1,727	1,749	1,870
2033	Canned fruits and vegetables.....	119,836	79,419	76,566	78,379	81,313	87,383	96,649	156,968	216,436	222,506	141,816	108,866	91,726
2035	Pickles and sauces.....	21,895	17,796	18,071	18,148	18,743	19,813	20,839	23,069	36,759	31,576	22,529	17,827	17,571
2036	Packaged seafood.....	12,200	11,528	11,687	11,643	10,616	9,845	9,767	10,755	11,456	12,777	15,374	15,688	15,259
2037	Frozen fruits and vegetables.....	21,436	15,479	14,391	14,913	17,559	19,505	23,224	27,249	31,411	32,030	23,822	19,850	17,799
2044	Rice milling.....	3,964	4,003	3,885	3,615	3,387	3,391	3,385	3,633	4,510	4,801	4,949	4,241	3,762
2061	Raw cane sugar.....	3,078	2,923	2,556	2,523	2,534	2,362	2,045	2,350	2,373	2,360	4,020	5,518	5,372
2062	Cane-sugar refining.....	16,068	16,042	16,190	16,266	16,405	16,185	16,313	16,194	16,299	16,169	15,634	15,641	15,475
2063	Beet sugar.....	11,019	8,270	6,656	5,720	6,522	7,249	7,694	7,813	8,447	9,974	23,811	22,920	17,150
2084	Wines and brandy.....	5,724	5,583	5,459	5,623	5,268	5,322	5,319	5,461	5,334	6,146	6,784	6,426	5,963
2085	Distilled liquor.....	21,505	20,789	20,471	20,817	20,930	21,323	21,249	19,692	18,973	20,686	24,838	25,353	22,939
2092	Shortening and cooking oils.....	9,398	9,278	9,407	9,514	9,505	9,330	9,359	9,223	9,176	9,347	9,509	9,571	9,557
2093	Margarine.....	2,626	2,723	2,747	2,669	2,584	2,644	2,501	2,500	2,520	2,628	2,681	2,671	2,644
2097	Manufactured ice.....	20,854	17,987	17,955	18,272	19,716	21,316	23,816	26,048	25,048	23,118	20,576	18,778	17,618
2099	Food preparations, n.e.c..	71,952	69,721	71,383	75,149	74,589	74,206	73,107	71,846	69,816	69,908	71,199	71,593	70,904
2111	Cigarettes.....	29,987	29,595	29,327	29,414	29,180	29,191	29,575	29,819	30,733	30,599	30,970	30,608	30,833
2121	Cigars.....	38,494	37,718	38,637	38,354	37,733	38,045	38,524	37,680	38,393	39,483	39,332	39,182	38,847
2131	Chewing and smoking tobacco.....	7,535	7,630	7,480	7,619	7,484	7,454	7,457	7,523	7,566	7,552	7,605	7,500	7,550
2141	Tobacco stemming and redrying.....	18,846	23,058	16,290	12,865	9,493	10,550	9,518	12,169	25,882	27,189	28,090	26,086	24,962
2274	Hard-surfaced floor coverings.....	9,638	9,756	9,757	9,539	9,846	8,557	8,969	9,875	9,816	9,985	9,830	9,848	9,880
2295	Coated fabrics, except rubberized.....	8,547	8,706	8,636	8,600	8,581	8,522	8,449	8,343	8,411	8,429	8,513	8,656	8,718
2424	Cooperage stock mills.....	3,368	3,532	3,868	3,581	3,409	3,545	3,658	3,587	3,492	3,253	3,090	2,740	2,661
2445	Cooperage.....	3,723	3,844	3,837	3,915	3,799	3,886	3,823	3,604	3,398	3,521	3,720	3,691	3,638
2871	Fertilizers.....	19,728	18,695	21,592	25,114	25,026	21,740	17,429	16,667	17,094	18,110	18,809	18,109	18,351
2872	Fertilizers, mixing only..	12,040	11,468	13,564	16,033	16,282	13,768	10,851	9,791	10,008	10,366	10,830	10,702	10,817
2881	Cottonseed oil mills.....	13,665	15,089	14,579	14,594	12,662	11,628	10,044	10,135	11,758	15,048	16,668	16,679	15,096
2882	Linseed oil mills.....	1,263	1,271	1,247	1,168	1,209	1,251	1,227	1,294	1,332	1,309	1,288	1,300	1,260
2883	Soybean oil mills.....	6,922	7,002	7,003	6,845	6,578	6,587	6,720	6,688	6,776	6,687	7,492	7,479	7,207
2884	Vegetable oil mills, nec..	2,460	2,686	2,550	2,646	2,609	2,466	2,393	2,207	2,346	2,348	2,372	2,383	2,514
2887	Fatty acids.....	1,891	1,960	1,926	1,948	1,940	1,903	1,821	1,846	1,857	1,873	1,883	1,856	1,879
2889	Animal oils, n.e.c.....	2,294	1,426	1,508	1,672	2,055	2,342	2,776	2,997	2,875	2,744	2,473	2,285	2,375
3161	Luggage.....	15,856	14,965	15,315	14,648	15,049	15,392	15,831	15,502	16,896	17,110	17,051	16,730	15,786
3171	Handbags and purses.....	22,881	22,798	24,835	24,982	21,506	19,080	19,483	21,333	23,844	24,119	24,491	24,653	23,452
3172	Small leather goods.....	6,663	5,807	6,226	6,372	5,916	5,458	5,751	6,371	7,032	7,757	8,022	8,031	7,216
3192	Saddlery, harness, and whips.....	1,289	1,335	1,273	1,298	1,362	1,377	1,359	1,338	1,303	1,320	1,160	1,179	1,164
3199	Leather goods, n.e.c.....	4,611	4,030	4,375	4,485	4,479	4,467	4,457	4,462	4,742	4,777	5,151	5,152	4,754
3992	Furs, dressed and dyed....	3,459	3,218	3,501	3,411	3,322	3,443	3,609	3,618	3,574	3,488	3,466	3,408	3,450

¹In these industries, the average total employment for the year is based on data reported for twelve months (instead of the four selected months, March, May, August, and November used in the other industries), because of large seasonal fluctuations in the industry.

Chapter III.—Size of Establishments

Table 1.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR MAJOR INDUSTRY GROUPS AND INDUSTRIES: 1954

(For explanation of line captions see Introduction. Data which cannot be shown without disclosing information for individual companies have been combined with figures for other size classes. A (D) appears in the column where the figure has been omitted and the combined figures is underlined and shown in the size class to the left.)

Code	Industry group, industry, and item	Total, all estab- lish- ments	Establishments with an average of—									
			1-4 em- ployees	5-9 em- ployees	10-19 em- ployees	20-49 em- ployees	50-99 em- ployees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
	All industries, total:											
	Number of establishments....	286,817	106,960	47,402	41,982	42,798	21,091	15,647	6,092	2,837	1,473	535
	Total employees.....	15,651,294	258,219	336,758	600,470	1,360,091	1,474,907	2,430,255	2,118,438	1,963,907	2,226,944	2,881,267
	Total payroll.....\$1,000..	62,993,321	663,090	1,064,579	2,037,718	4,797,471	5,448,795	9,170,719	8,218,179	8,048,270	9,766,903	13,777,559
	Production workers:											
	Number.....	12,373,030	205,047	269,226	478,258	1,094,133	1,183,236	1,949,834	1,703,403	1,555,271	1,740,094	2,194,490
	Man-hours.....1,000..	24,341,239	377,468	513,505	904,945	2,099,343	2,322,762	3,872,549	3,388,146	3,074,509	3,445,235	4,342,739
	Wages.....\$1,000..	44,595,457	485,561	771,364	1,422,701	3,301,705	3,725,467	6,406,919	5,902,973	5,782,284	7,023,004	9,773,441
	Value added by mfg....do....	116,912,526	1,554,297	2,008,156	3,644,703	8,351,209	9,661,529	17,143,425	15,834,820	15,454,350	18,927,036	24,332,963
	Cost of materials.....do....	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)
	Value of shipments.....do....	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)
	Capital expenditures.....do....	7,818,155	135,381	137,023	213,858	466,691	556,612	1,111,172	967,151	1,086,056	1,547,518	1,596,655
	Horsepower.....1,000 hp..	108,362	2,492	1,047	2,110	5,520	6,234	13,465	13,828	15,551	22,169	25,946
	Electricity used..mil. kwh..	247,666	4,498	1,810	2,738	6,547	9,997	25,610	34,646	37,311	69,749	54,760
20	Food and kindred products:											
	Number of establishments....	42,374	14,157	7,655	6,913	6,780	3,387	2,447	673	238	98	26
	Total employees.....	1,647,204	36,519	54,684	98,763	214,362	237,696	374,784	229,084	162,382	143,112	95,814
	Total payroll.....\$1,000..	6,201,500	83,855	149,772	302,185	711,016	850,883	1,439,977	938,343	682,327	608,036	435,102
	Production workers:											
	Number.....	1,138,239	28,122	40,146	67,496	144,065	159,477	250,820	153,807	113,011	106,090	75,201
	Man-hours.....1,000..	2,316,661	53,894	81,667	136,257	289,330	326,648	519,580	318,599	228,538	212,383	149,761
	Wages.....\$1,000..	3,759,071	62,110	102,427	179,598	396,766	472,725	817,192	555,838	430,125	413,121	329,165
	Value added by mfg....do....	13,400,218	217,877	313,116	611,532	1,447,850	1,857,296	3,205,903	2,073,259	1,544,993	1,258,580	869,816
	Cost of materials.....do....	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)
	Value of shipments.....do....	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)
	Capital expenditures.....do....	789,050	24,598	30,047	46,042	99,852	105,695	165,644	135,043	67,499	75,437	39,053
	Horsepower.....1,000 hp..	7,503	150	224	485	1,011	1,061	1,822	977	751	606	416
	Electricity used..mil. kwh..	13,972	455	506	890	1,698	1,925	3,187	1,853	1,320	1,443	695
21	Tobacco manufactures:											
	Number of establishments....	627	234	62	40	56	60	86	47	22	19	1
	Total employees.....	94,863	495	444	608	1,825	4,260	13,769	17,339	15,415	40,708	(D)
	Total payroll.....\$1,000..	259,689	706	841	1,416	4,159	10,199	31,873	42,374	38,178	129,943	(D)
	Production workers:											
	Number.....	87,073	427	401	539	1,674	3,744	12,429	15,504	14,496	37,859	(D)
	Man-hours.....1,000..	162,988	604	641	925	3,213	7,477	23,266	27,967	26,317	72,578	(D)
	Wages.....\$1,000..	219,736	561	644	1,000	3,222	7,451	24,859	33,817	34,030	114,152	(D)
	Value added by mfg....do....	988,001	1,396	1,295	2,367	6,267	18,603	65,441	96,747	79,229	716,656	(D)
	Cost of materials.....do....	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(D)
	Value of shipments.....do....	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(D)
	Capital expenditures.....do....	28,018	(1)	(1)	(1)	(1)	1,260	2,895	2,041	897	20,408	(D)
	Horsepower.....1,000 hp..	256	(2)	(2)	(2)	3	13	34	27	29	150	(D)
	Electricity used..mil. kwh..	330	2	(3)	(3)	3	9	36	37	40	203	(D)
22	Textile mill products:											
	Number of establishments....	8,070	1,264	862	1,082	1,562	1,058	1,154	611	328	136	13
	Total employees.....	1,037,440	3,228	6,250	15,687	50,823	75,204	185,393	215,015	224,717	261,120	(D)
	Total payroll.....\$1,000..	3,032,490	8,868	19,431	48,743	152,464	223,500	555,059	626,348	644,841	753,233	(D)
	Production workers:											
	Number.....	947,502	2,683	5,288	13,600	45,244	67,782	168,697	197,580	206,789	239,836	(D)
	Man-hours.....1,000..	1,821,075	4,976	9,957	25,627	86,494	129,140	324,049	384,359	397,986	458,484	(D)
	Wages.....\$1,000..	2,526,564	6,168	14,287	36,430	119,467	175,244	451,089	527,082	550,137	646,657	(D)
	Value added by mfg....do....	4,748,586	22,772	37,651	88,555	250,834	345,899	888,722	971,354	999,773	1,143,023	(D)
	Cost of materials.....do....	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(D)
	Value of shipments.....do....	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(D)
	Capital expenditures.....do....	225,914	1,921	1,897	5,068	13,761	16,039	35,341	43,769	45,863	62,252	(D)
	Horsepower.....1,000 hp..	4,595	279	9	50	145	193	739	923	1,096	1,161	(D)
	Electricity used..mil. kwh..	12,322	507	71	100	271	399	1,538	2,531	3,191	3,714	(D)
23	Apparel and related products:											
	Number of establishments....	31,372	8,308	4,535	5,249	7,283	3,408	1,920	502	141	25	1
	Total employees.....	1,190,062	20,618	32,712	76,402	234,522	236,234	288,757	169,354	90,760	40,699	(D)
	Total payroll.....\$1,000..	3,201,795	54,451	100,909	225,195	649,592	649,210	735,778	418,422	243,132	129,102	(D)
	Production workers:											
	Number.....	1,069,867	16,436	26,726	65,822	211,807	213,236	263,991	154,736	80,974	36,135	(D)
	Man-hours.....1,000..	1,898,999	28,048	47,605	112,257	363,656	374,871	474,246	283,363	149,480	65,469	(D)
	Wages.....\$1,000..	2,521,135	37,215	69,968	166,818	515,779	510,156	589,559	338,915	191,330	101,391	(D)
	Value added by mfg....do....	5,147,371	141,958	201,794	414,629	1,005,396	991,603	1,131,750	662,295	409,131	188,811	(D)
	Cost of materials.....do....	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(D)
	Value of shipments.....do....	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(D)
	Capital expenditures.....do....	76,552	2,706	2,924	4,374	11,886	11,987	19,495	14,750	5,366	3,060	(D)
	Horsepower.....1,000 hp..	...	...	...	...	...	...	...	...	...	...	...
	Electricity used..mil. kwh..	915	80	14	45	242	174	149	117	68	26	(D)

See footnotes at end of table.

MANUFACTURES—SUMMARY STATISTICS

Table 1.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR MAJOR INDUSTRY GROUPS AND INDUSTRIES: 1954—Con.

Code	Industry group, industry, and item	Total, all estab- lish- ments	Establishments with an average of—									
			1-4 em- ployees	5-9 em- ployees	10-19 em- ployees	20-49 em- ployees	50-99 em- ployees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
24	Lumber & wood products:											
	Number of establishments....	41,484	22,748	7,260	5,089	3,695	1,560	851	215	57	8	1
	Total employees.....	645,936	49,721	50,571	72,025	115,738	108,424	125,521	73,203	39,095	11,637	(D)
	Total payroll.....\$1,000..	1,933,523	98,084	110,668	171,490	330,471	343,729	417,934	264,904	148,518	47,724	(D)
	Production workers:											
	Number.....	581,920	43,713	45,963	66,328	104,382	97,330	113,122	66,302	34,502	10,277	(D)
	Man-hours.....1,000..	1,106,955	73,270	77,722	113,459	194,148	192,963	229,034	136,118	70,772	19,468	(D)
	Wages.....\$1,000..	1,604,859	80,891	94,291	146,104	270,982	278,473	346,431	225,598	123,407	38,681	(D)
	Value added by mfg....do....	3,188,409	206,857	199,586	295,044	540,787	546,092	665,275	419,297	226,553	88,917	(D)
	Cost of materials.....do....	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(D)
	Value of shipments.....do....	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(D)
	Capital expenditures..do....	217,361	26,089	19,689	22,517	37,630	30,287	30,623	24,169	20,561	5,795	(D)
	Horsepower.....1,000 hp..	5,151	144	249	528	1,050	921	1,068	659	396	136	(D)
	Electricity used..mil. kwh..	4,269	111	131	227	480	898	974	782	436	230	(D)
25	Furniture & fixtures:											
	Number of establishments....	10,273	4,065	1,720	1,476	1,529	753	500	159	52	17	2
	Total employees.....	340,694	9,827	12,236	20,990	47,981	52,325	77,395	55,912	36,276	27,751	(D)
	Total payroll.....\$1,000..	1,197,376	25,848	39,448	71,053	167,033	186,763	269,242	194,734	127,360	115,894	(D)
	Production workers:											
	Number.....	286,649	8,031	10,236	17,459	39,973	44,496	66,079	47,405	29,003	23,966	(D)
	Man-hours.....1,000..	571,294	15,135	19,617	33,777	78,324	88,564	132,828	97,150	58,971	46,927	(D)
	Wages.....\$1,000..	892,891	19,613	29,861	53,557	121,893	136,672	201,529	144,493	95,832	89,440	(D)
	Value added by mfg....do....	1,966,410	54,830	67,586	113,588	266,550	301,465	430,679	326,676	221,127	183,908	(D)
	Cost of materials.....do....	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(D)
	Value of shipments.....do....	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(D)
	Capital expenditures..do....	61,945	3,630	2,841	4,024	8,814	7,362	14,450	8,305	7,301	6,211	(D)
	Horsepower.....1,000 hp..	949	31	12	38	121	135	245	178	91	98	(D)
	Electricity used..mil. kwh..	1,217	44	36	66	141	149	253	211	148	169	(D)
26	Pulp, paper and products:											
	Number of establishments....	5,004	1,398	479	650	1,045	716	857	373	142	40	4
	Total employees.....	530,210	1,798	3,479	9,515	34,336	51,291	134,878	129,131	96,928	55,879	12,939
	Total payroll.....\$1,000..	2,217,420	4,926	11,127	31,588	120,028	200,887	561,652	562,158	425,816	239,883	59,319
	Production workers:											
	Number.....	435,727	1,551	2,917	7,908	28,806	42,603	110,065	106,695	81,076	45,052	9,017
	Man-hours.....1,000..	919,940	2,985	5,632	15,122	57,666	88,695	233,451	230,001	172,501	95,451	18,400
	Wages.....\$1,000..	1,656,720	3,781	8,183	22,271	85,146	144,805	410,096	429,661	335,111	179,231	38,393
	Value added by mfg....do....	4,580,944	12,101	22,484	57,693	211,303	397,032	1,088,380	1,151,548	990,831	504,710	144,826
	Cost of materials.....do....	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)
	Value of shipments.....do....	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)
	Capital expenditures..do....	532,723	1,730	3,162	4,622	20,617	32,695	171,699	160,849	92,605	40,294	4,408
	Horsepower.....1,000 hp..	8,256	124	5	47	334	558	1,684	2,174	2,162	1,066	102
	Electricity used..mil. kwh..	23,539	666	15	97	492	1,577	4,351	6,747	6,537	2,705	352
27	Printing and publishing:											
	Number of establishments....	32,531	10,158	6,387	4,331	3,418	1,332	837	262	117	79	10
	Total employees.....	804,386	39,067	44,889	61,258	106,450	92,101	129,365	91,206	82,837	117,690	39,475
	Total payroll.....\$1,000..	3,625,133	106,464	159,569	249,493	464,569	427,739	601,357	410,233	397,816	588,776	219,070
	Production workers:											
	Number.....	499,066	26,113	31,676	43,245	71,997	60,069	80,895	55,739	44,034	62,959	22,889
	Man-hours.....1,000..	961,465	49,292	61,266	83,416	139,977	116,522	156,406	111,211	81,896	118,845	42,580
	Wages.....\$1,000..	2,115,344	69,176	108,445	164,356	287,722	258,253	352,054	244,743	207,304	302,776	120,463
	Value added by mfg....do....	6,264,558	250,952	280,851	405,826	726,106	679,035	1,055,544	737,664	692,923	1,037,785	397,824
	Cost of materials.....do....	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)
	Value of shipments.....do....	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)
	Capital expenditures..do....	236,897	17,545	15,306	16,537	28,333	26,268	36,645	27,680	21,907	32,677	13,949
	Horsepower.....1,000 hp..	975	7	13	43	104	89	165	109	180	168	97
	Electricity used..mil. kwh..	1,685	20	71	162	196	178	261	198	197	260	142
28	Chemicals and products:											
	Number of establishments....	11,075	3,671	1,782	1,662	1,849	969	648	255	116	86	37
	Total employees.....	739,389	9,157	12,766	23,763	59,342	66,957	100,120	89,544	84,058	134,818	158,726
	Total payroll.....\$1,000..	3,407,199	27,073	48,309	92,893	238,939	287,100	438,239	416,704	401,400	647,240	809,218
	Production workers:											
	Number.....	501,272	6,784	9,033	16,357	41,583	46,842	67,553	61,201	56,703	92,564	102,543
	Man-hours.....1,000..	1,016,053	13,126	18,160	32,244	85,370	97,121	138,711	125,134	114,159	186,618	205,295
	Wages.....\$1,000..	2,005,627	17,720	28,230	50,174	131,606	159,282	254,801	252,593	242,067	405,577	463,463
	Value added by mfg....do....	9,443,629	74,967	116,558	218,841	596,338	726,145	1,240,160	1,443,737	1,308,308	1,824,081	1,894,391
	Cost of materials.....do....	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)
	Value of shipments.....do....	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)
	Capital expenditures..do....	926,613	5,798	8,190	26,633	54,215	55,921	204,036	132,390	85,245	214,529	139,552
	Horsepower.....1,000 hp..	14,329	697	67	198	679	782	1,547	1,414	1,642	3,978	3,325
	Electricity used..mil. kwh..	61,166	1,006	126	246	1,048	1,659	4,820	6,791	5,757	19,645	20,068

See footnotes at end of table.

SIZE OF ESTABLISHMENTS

203-3

Table 1.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR MAJOR INDUSTRY GROUPS AND INDUSTRIES: 1954—Con.

Code	Industry group, industry, and item	Total, all estab- lish- ments	Establishments with an average of—									
			1-4 em- ployees	5-9 em- ployees	10-19 em- ployees	20-49 em- ployees	50-99 em- ployees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
29	<u>Petroleum & coal products:</u>											
	Number of establishments....	1,381	266	220	214	194	139	172	90	46	27	13
	Total employees.....	215,843	702	1,568	3,046	6,220	9,959	25,892	32,996	32,762	42,832	59,848
	Total payroll.....\$1,000..	1,101,814	2,594	6,543	13,730	29,186	45,947	123,992	161,045	166,983	226,167	325,612
	Production workers:											
	Number.....	163,811	571	1,154	2,209	4,418	7,391	20,418	26,486	25,381	32,321	43,444
	Man-hours.....1,000..	322,947	1,098	2,257	4,235	8,590	15,778	42,032	52,640	50,259	62,957	83,083
	Wages.....\$1,000..	778,408	1,825	4,111	7,995	17,294	31,483	90,876	122,160	122,974	160,550	219,126
	Value added by mfg....do....	2,582,613	9,328	17,414	32,200	68,198	107,890	331,555	379,346	472,105	507,206	657,354
	Cost of materials.....do....	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)
	Value of shipments.....do....	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)
	Capital expenditures..do....	753,184	2,478	1,524	6,280	13,283	52,252	66,778	59,789	133,037	208,366	209,380
	Horsepower.....1,000 hp..	7,479	94	29	57	80	126	628	1,137	1,288	2,040	2,000
	Electricity used..mil. kwh..	10,579	51	21	32	81	152	984	1,253	1,755	2,713	3,537
30	<u>Rubber products:</u>											
	Number of establishments....	1,406	372	204	177	211	136	134	66	54	36	16
	Total employees.....	246,526	901	1,453	2,514	6,967	9,468	20,994	22,717	38,681	56,753	86,042
	Total payroll.....\$1,000..	1,059,337	2,639	5,139	8,980	25,679	35,437	85,597	90,459	157,789	252,055	395,554
	Production workers:											
	Number.....	196,238	640	1,048	1,922	5,570	7,640	17,231	18,348	30,395	45,738	67,697
	Man-hours.....1,000..	377,414	1,228	2,019	3,629	10,606	15,049	35,211	35,423	59,991	89,894	124,352
	Wages.....\$1,000..	775,499	1,710	3,215	5,781	16,360	23,715	61,072	66,011	113,605	192,054	291,967
	Value added by mfg....do....	1,903,702	6,564	11,413	17,350	48,047	67,531	151,128	147,315	297,403	518,486	638,285
	Cost of materials.....do....	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)
	Value of shipments.....do....	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)
	Capital expenditures..do....	128,431	914	1,355	1,617	4,415	3,448	9,810	8,585	13,766	40,215	44,296
	Horsepower.....1,000 hp..	1,848	16	3	12	52	65	170	171	314	519	526
	Electricity used..mil. kwh..	3,749	35	11	23	54	84	267	285	515	1,059	1,416
31	<u>Leather & leather goods:</u>											
	Number of establishments....	4,845	1,303	644	631	780	507	547	334	87	11	1
	Total employees.....	356,578	3,193	4,609	9,054	25,549	36,398	87,524	116,963	55,671	17,616	(D)
	Total payroll.....\$1,000..	1,027,314	7,125	12,540	25,508	73,309	109,628	249,351	327,275	163,148	59,429	(D)
	Production workers:											
	Number.....	321,161	2,654	3,922	7,810	22,549	32,227	79,290	106,996	50,595	15,117	(D)
	Man-hours.....1,000..	586,857	4,768	7,291	14,503	41,975	59,873	146,302	193,506	90,708	27,930	(D)
	Wages.....\$1,000..	833,694	5,323	9,618	19,658	56,642	85,516	202,657	272,667	136,063	45,549	(D)
	Value added by mfg....do....	1,637,417	18,738	23,258	41,113	109,738	169,379	375,007	546,358	259,232	94,593	(D)
	Cost of materials.....do....	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(D)
	Value of shipments.....do....	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(D)
	Capital expenditures..do....	28,053	837	505	792	1,890	2,773	7,615	8,074	4,141	1,425	(D)
	Horsepower.....1,000 hp..	505	11	2	8	49	52	165	132	60	26	(D)
	Electricity used..mil. kwh..	716	25	9	17	48	74	196	210	99	38	(D)
32	<u>Stone, clay, and glass products:</u>											
	Number of establishments....	11,162	4,287	1,883	1,659	1,546	770	613	262	83	52	7
	Total employees.....	491,814	10,398	13,371	23,723	49,440	53,548	97,657	89,207	56,645	74,386	23,427
	Total payroll.....\$1,000..	1,938,085	24,749	40,242	80,782	179,279	203,723	378,148	360,926	225,774	334,695	109,711
	Production workers:											
	Number.....	412,031	8,389	10,845	18,793	40,511	44,724	83,953	75,835	48,551	63,502	16,876
	Man-hours.....1,000..	827,012	15,733	21,348	37,391	81,909	92,433	169,182	153,708	94,168	127,319	33,748
	Wages.....\$1,000..	1,496,029	19,176	30,299	56,481	126,842	150,201	298,480	284,130	181,042	273,196	76,103
	Value added by mfg....do....	3,821,659	51,758	73,742	148,345	324,900	347,608	784,132	787,673	443,255	668,306	191,863
	Cost of materials.....do....	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)
	Value of shipments.....do....	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)
	Capital expenditures..do....	300,647	8,364	8,322	11,923	24,542	30,877	67,884	57,931	24,101	55,585	11,031
	Horsepower.....1,000 hp..	4,811	74	48	138	415	426	1,327	1,277	433	541	132
	Electricity used..mil. kwh..	11,573	178	71	138	349	563	3,533	3,422	1,317	1,535	467
33	<u>Primary metal industries:</u>											
	Number of establishments....	5,838	1,130	734	785	1,083	669	651	354	213	148	71
	Total employees.....	1,117,059	2,913	5,303	11,428	35,287	46,969	105,126	126,848	149,513	232,124	401,490
	Total payroll.....\$1,000..	5,097,466	9,213	19,219	43,992	142,720	200,580	459,077	554,365	687,850	1,088,490	1,891,915
	Production workers:											
	Number.....	938,511	2,509	4,480	9,605	30,067	40,157	89,028	103,382	125,301	192,365	341,565
	Man-hours.....1,000..	1,812,027	4,831	8,736	18,548	58,953	79,420	175,555	203,998	243,080	373,236	645,611
	Wages.....\$1,000..	3,985,548	6,804	14,671	32,701	106,813	151,658	349,501	430,152	526,943	843,094	1,523,155
	Value added by mfg....do....	9,372,910	19,782	34,091	71,582	231,964	330,871	843,035	1,065,810	1,324,250	2,016,810	3,434,675
	Cost of materials.....do....	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)
	Value of shipments.....do....	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)
	Capital expenditures..do....	831,095	1,887	4,284	4,221	27,101	32,787	53,851	64,260	105,389	270,496	266,765
	Horsepower.....1,000 hp..	24,482	166	224	46	217	392	1,355	1,944	2,947	6,523	10,668
	Electricity used..mil. kwh..	65,932	251	397	74	245	664	2,203	6,460	10,724	29,255	15,659

See footnotes at end of table.

MANUFACTURES—SUMMARY STATISTICS

Table 1.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR MAJOR INDUSTRY GROUPS AND INDUSTRIES: 1954—Con.

Code	Industry group, industry, and item	Total, all estab- lish- ments	Establishments with an average of—									
			1-4 em- ployees	5-9 em- ployees	10-19 em- ployees	20-49 em- ployees	50-99 em- ployees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
34	Fabricated metal products:											
	Number of establishments....	22,516	7,705	3,792	3,671	3,643	1,689	1,219	460	242	81	14
	Total employees.....	1,019,406	19,020	27,018	52,411	114,980	118,700	190,293	159,088	166,832	109,594	61,369
	Total payroll.....\$1,000..	4,397,337	56,367	98,753	204,814	472,801	511,154	820,790	682,134	755,760	506,541	288,149
	Production workers:											
	Number.....	821,172	15,505	22,230	42,403	93,455	95,684	151,902	128,474	133,803	87,702	49,924
	Man-hours.....1,000..	1,652,366	29,880	43,787	83,218	185,000	194,513	310,520	259,450	269,073	175,450	101,380
	Wages.....\$1,000..	3,174,186	42,496	74,023	145,100	325,972	352,185	575,014	501,266	553,280	380,901	223,852
	Value added by mfg....do....	7,596,275	126,541	178,564	350,092	802,292	850,064	1,384,553	1,248,293	1,331,167	851,855	472,755
	Cost of materials.....do....	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)
	Value of shipments.....do....	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)
	Capital expenditures..do....	432,491	11,403	10,015	17,702	38,857	42,304	65,356	58,969	106,376	41,320	40,088
	Horsepower.....1,000 hp..	4,888	140	63	168	491	548	926	736	871	609	336
	Electricity used..mil. kwh..	5,886	198	126	241	448	504	941	1,013	1,118	800	497
35	Machinery, except electrical:											
	Number of establishments....	25,601	9,623	4,427	4,029	3,629	1,584	1,168	551	317	209	64
	Total employees.....	1,541,675	23,280	31,610	57,478	113,037	110,806	183,714	193,263	220,463	319,351	288,627
	Total payroll.....\$1,000..	7,190,563	76,767	131,517	254,639	525,544	536,884	871,414	906,779	1,021,439	1,493,914	1,371,554
	Production workers:											
	Number.....	1,171,323	18,718	25,676	46,316	89,716	85,317	138,000	141,830	162,370	239,424	223,812
	Man-hours.....1,000..	2,369,610	37,254	52,924	94,300	185,615	178,207	287,441	288,864	327,176	476,472	441,221
	Wages.....\$1,000..	4,979,972	57,779	99,205	185,492	364,615	359,091	578,350	594,367	698,706	1,048,696	993,538
	Value added by mfg....do....	12,338,914	170,966	225,206	413,356	848,230	887,387	1,551,347	1,573,813	1,826,729	2,509,707	2,332,158
	Cost of materials.....do....	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)
	Value of shipments.....do....	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)
	Capital expenditures..do....	713,808	14,534	14,102	25,099	40,407	64,141	69,400	60,861	118,372	148,774	157,991
	Horsepower.....1,000 hp..	7,306	138	71	198	461	503	789	883	1,078	1,732	1,453
	Electricity used..mil. kwh..	8,058	213	89	173	308	370	734	906	1,149	2,044	2,072
36	Electrical machinery:											
	Number of establishments....	5,758	1,449	760	712	896	591	589	339	215	142	65
	Total employees.....	959,126	3,506	5,432	10,272	29,179	41,918	93,341	117,148	151,614	210,566	295,724
	Total payroll.....\$1,000..	3,950,994	10,380	18,964	36,674	107,754	162,370	359,876	459,330	607,989	873,206	1,314,402
	Production workers:											
	Number.....	722,443	2,783	4,273	8,148	23,507	33,690	75,004	91,287	117,433	159,777	206,473
	Man-hours.....1,000..	1,422,339	5,211	8,401	15,625	45,206	66,335	151,714	181,448	232,432	309,635	406,266
	Wages.....\$1,000..	2,645,588	7,444	13,353	24,935	71,848	107,859	248,236	312,560	420,455	590,933	847,901
	Value added by mfg....do....	7,403,134	23,916	36,813	68,212	194,513	289,352	662,591	854,449	1,163,017	1,686,697	2,423,515
	Cost of materials.....do....	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)
	Value of shipments.....do....	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)
	Capital expenditures..do....	340,677	1,846	4,753	3,726	12,790	10,694	32,139	50,178	57,674	61,499	105,312
	Horsepower.....1,000 hp..	2,521	123	5	14	44	82	190	331	376	484	872
	Electricity used..mil. kwh..	5,604	188	21	36	94	165	379	860	1,040	1,119	1,702
37	Transportation equipment:											
	Number of establishments....	5,348	1,626	682	723	782	429	402	206	186	167	145
	Total employees.....	1,704,572	3,905	4,869	10,431	24,849	30,052	64,834	74,100	133,078	276,125	1,082,258
	Total payroll.....\$1,000..	8,295,773	11,485	17,444	40,365	103,655	132,339	286,385	338,897	631,096	1,356,549	5,377,524
	Production workers:											
	Number.....	1,327,078	3,274	4,066	8,601	20,571	24,732	53,418	59,939	103,401	220,997	828,033
	Man-hours.....1,000..	2,714,603	6,391	8,198	17,010	41,420	50,206	108,876	122,840	210,089	458,075	1,691,471
	Wages.....\$1,000..	6,003,250	8,858	13,420	30,229	75,854	94,860	213,748	248,963	455,748	1,023,580	3,837,944
	Value added by mfg....do....	13,925,983	22,387	30,078	63,203	164,767	209,837	475,991	550,908	997,959	2,658,363	8,752,451
	Cost of materials.....do....	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)
	Value of shipments.....do....	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)
	Capital expenditures..do....	924,646	2,109	1,958	3,762	6,781	8,316	30,375	17,065	127,931	241,218	485,095
	Horsepower.....1,000 hp..	9,041	207	10	31	106	107	266	312	1,327	1,827	4,848
	Electricity used..mil. kwh..	11,804	269	15	33	71	115	290	400	1,217	2,265	7,129
38	Instruments and related products:											
	Number of establishments....	3,142	1,198	534	425	379	231	185	84	56	33	17
	Total employees.....	272,586	2,950	3,751	6,145	12,022	16,204	28,704	29,275	41,096	49,802	82,606
	Total payroll.....\$1,000..	1,200,322	8,668	13,511	23,360	47,605	66,625	115,313	125,775	175,389	227,777	396,271
	Production workers:											
	Number.....	195,597	2,220	2,857	4,711	9,276	12,256	22,072	21,494	29,124	34,939	56,610
	Man-hours.....1,000..	391,403	4,170	5,517	9,037	18,117	24,580	44,077	42,775	59,998	71,151	111,948
	Wages.....\$1,000..	759,459	5,874	9,072	15,324	29,797	41,761	74,780	78,907	114,337	144,139	245,433
	Value added by mfg....do....	2,128,706	20,962	24,975	40,476	82,951	108,614	204,245	229,528	291,719	385,495	739,721
	Cost of materials.....do....	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)
	Value of shipments.....do....	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)
	Capital expenditures..do....	94,008	1,323	1,587	1,529	3,498	4,494	5,956	9,875	15,943	14,953	34,815
	Horsepower.....1,000 hp..	1,161	7	1	7	14	19	40	51	72	201	749
	Electricity used..mil. kwh..	996	29	8	15	25	41	69	76	129	167	437

See footnotes at end of table.

SIZE OF ESTABLISHMENTS

203-5

Table 1.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR MAJOR INDUSTRY GROUPS AND INDUSTRIES: 1954—Con.

Code	Industry group, industry, and item	Total, all estab- lish- ments	Establishments with an average of—									
			1-4 em- ployees	5-9 em- ployees	10-19 em- ployees	20-49 em- ployees	50-99 em- ployees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
39	Miscellaneous manufactures:											
	Number of establishments....	17,010	7,098	2,780	2,464	2,438	1,103	667	249	125	59	27
	Total employees.....	695,917	17,021	19,797	34,957	77,182	76,393	102,194	87,045	85,084	86,281	109,851
	Total payroll.....\$1,000..	2,658,182	42,828	60,633	110,818	251,668	264,098	369,665	336,974	345,665	356,775	518,955
	Production workers:											
	Number.....	555,746	13,924	16,289	28,986	64,962	63,839	85,867	70,363	68,329	66,651	76,398
	Man-hours.....1,000..	1,089,229	25,574	30,760	54,365	123,774	124,367	170,068	139,592	136,915	132,585	151,089
	Wages.....\$1,000..	1,861,873	31,037	44,041	78,697	177,085	184,077	266,595	239,050	249,788	250,571	340,796
	Value added by mfg....do....	4,473,050	99,645	111,681	190,699	424,178	429,826	607,987	568,750	574,946	630,385	834,834
	Cost of materials.....do....	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)
	Value of shipments.....do....	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)
	Capital expenditures..do....	176,036	6,617	4,523	7,141	17,836	17,012	21,180	22,568	32,082	21,769	25,165
	Horsepower.....1,000 hp..	2,306	84	12	42	144	162	305	393	438	304	422
	Electricity used..mil. kwh..	3,354	170	72	123	253	297	445	494	554	359	587
20	Food and kindred products:											
	Number of establishments....	42,374	14,157	7,655	6,913	6,780	3,387	2,447	673	238	98	26
	Total employees.....	1,647,204	36,519	54,684	98,763	214,362	237,696	374,784	229,084	162,382	143,112	95,814
	Total payroll.....\$1,000..	6,201,500	83,855	149,772	302,185	711,016	850,883	1,439,977	938,343	682,327	608,036	435,102
	Production workers:											
	Number.....	1,138,239	28,122	40,146	67,496	144,065	159,477	250,820	153,807	113,011	106,090	75,201
	Man-hours.....1,000..	2,316,661	53,894	81,667	136,257	289,330	326,648	519,580	318,599	228,538	212,383	149,761
	Wages.....\$1,000..	3,759,071	62,110	102,427	179,598	396,766	472,725	817,192	555,838	430,125	413,121	329,165
	Value added by mfg....do....	13,400,218	217,877	313,116	611,532	1,447,850	1,857,296	3,205,903	2,073,259	1,544,993	1,258,580	869,816
	Cost of materials.....do....	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)
	Value of shipments.....do....	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)
	Capital expenditures..do....	789,050	24,598	30,047	46,042	99,852	105,695	165,644	135,043	67,499	75,437	39,053
	Horsepower.....1,000 hp..	7,503	150	224	485	1,011	1,061	1,822	977	751	606	416
	Electricity used..mil. kwh..	13,972	455	506	890	1,698	1,925	3,187	1,853	1,320	1,443	695
2011	Meat packing plants:											
	Number of establishments....	2,367	760	349	325	419	208	151	69	41	29	16
	Total employees.....	220,194	1,785	2,503	4,711	13,482	14,749	23,883	24,715	29,430	45,265	59,667
	Total payroll.....\$1,000..	942,970	4,257	7,932	16,803	50,883	61,297	103,024	104,877	131,965	194,748	267,181
	Production workers:											
	Number.....	167,815	1,331	1,924	3,458	9,853	11,168	18,472	18,649	21,459	34,501	46,996
	Man-hours.....1,000..	354,779	2,651	4,112	7,437	21,512	24,638	40,888	40,455	44,625	71,993	96,465
	Wages.....\$1,000..	687,878	3,189	5,905	11,319	33,521	40,993	72,880	75,179	91,027	144,786	209,075
	Value added by mfg....do....	1,394,486	13,228	17,532	36,069	100,989	115,037	175,928	153,705	182,009	222,122	376,864
	Cost of materials.....do....	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)
	Value of shipments.....do....	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)
	Capital expenditures..do....	64,976	1,412	1,557	1,564	5,881	5,565	8,501	6,542	7,982	9,021	16,947
	Horsepower.....1,000 hp..	897	1	5	17	59	60	108	103	171	167	206
	Electricity used..mil. kwh..	1,746	14	32	55	119	155	257	206	201	326	381
2013	Prepared meats:											
	Number of establishments....	1,316	431	211	239	226	106	78	19	3	3	...
	Total employees.....	44,997	1,095	1,475	3,439	7,303	7,492	11,561	6,564	1,770	4,293	...
	Total payroll.....\$1,000..	186,939	2,923	4,826	13,224	29,493	31,760	48,498	28,049	7,907	20,256	...
	Production workers:											
	Number.....	33,767	855	1,131	2,534	5,321	5,427	8,955	5,254	1,212	3,074	...
	Man-hours.....1,000..	70,034	1,648	2,174	4,949	10,763	11,146	18,809	11,255	2,812	6,472	...
	Wages.....\$1,000..	124,327	2,188	3,357	8,473	17,893	19,847	33,801	20,717	5,046	13,000	...
	Value added by mfg....do....	330,312	7,610	9,061	22,445	49,405	60,464	86,841	48,778	15,659	30,043	...
	Cost of materials.....do....	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	...
	Value of shipments.....do....	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	...
	Capital expenditures..do....	15,617	796	712	1,519	2,685	2,779	3,262	2,338	(1)	1,093	...
	Horsepower.....1,000 hp..	130	(2)	2	9	26	23	32	20	6	12	...
	Electricity used..mil. kwh..	264	3	9	21	40	44	63	35	16	33	...
2015	Poultry dressing plants:											
	Number of establishments....	1,309	478	189	149	205	143	132	12	1	...	...
	Total employees.....	46,173	1,179	1,338	2,128	6,881	10,431	19,429	4,785	(D)	...	...
	Total payroll.....\$1,000..	104,706	2,269	3,011	4,852	14,964	23,463	44,677	11,468	(D)	...	...
	Production workers:											
	Number.....	41,551	1,006	1,165	1,883	6,228	9,416	17,462	4,389	(D)	...	...
	Man-hours.....1,000..	79,530	1,597	2,077	3,231	11,254	17,363	34,885	9,120	(D)	...	...
	Wages.....\$1,000..	86,459	1,661	2,348	3,768	12,688	19,117	37,022	9,852	(D)	...	...
	Value added by mfg....do....	206,175	6,540	7,817	10,612	30,635	47,176	85,473	17,919	(D)	...	...
	Cost of materials.....do....	1,051,718	26,476	32,163	46,439	152,504	244,780	456,770	92,582	(D)	...	...
	Value of shipments.....do....	1,257,892	33,016	39,981	57,052	183,140	291,956	542,244	110,502	(D)	...	...
	Capital expenditures..do....	10,768	388	396	617	1,876	1,980	4,016	1,492	(D)	...	...
	Horsepower.....1,000 hp..	66	(2)	1	1	10	15	32	7	(D)	...	...
	Electricity used..mil. kwh..	238	4	6	10	27	74	97	20	(D)	...	...

See footnotes at end of table.

Table 1.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR MAJOR INDUSTRY GROUPS AND INDUSTRIES: 1954—Con.

Code	Industry group, industry, and item	Total, all estab- lish- ments	Establishments with an average of—									
			1-4 em- ployees	5-9 em- ployees	10-19 em- ployees	20-49 em- ployees	50-99 em- ployees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
2021	<u>Creamery butter:</u>											
	Number of establishments....	1,262	485	310	219	162	54	26	6	...	...	...
	Total employees.....	21,019	1,393	2,190	3,062	5,015	3,785	3,436	2,136	...	...	...
	Total payroll.....\$1,000..	65,601	3,228	5,860	9,072	16,394	12,445	10,788	7,813	...	...	...
	Production workers:											
	Number.....	15,060	1,103	1,677	2,256	3,606	2,616	2,394	1,407	...	...	...
	Man-hours.....1,000..	32,756	2,257	3,647	5,177	7,807	5,779	5,044	3,043	...	...	...
	Wages.....\$1,000..	42,920	2,622	4,439	6,157	10,488	7,629	6,984	4,599	...	...	...
	Value added by mfg....do....	136,953	6,840	12,409	21,897	34,060	24,447	22,478	14,818	...	...	...
	Cost of materials.....do....	789,465	59,713	88,274	119,103	216,720	145,432	104,576	55,644	...	...	...
	Value of shipments.....do....	926,414	66,552	100,683	141,000	250,880	169,879	126,955	70,462	...	...	...
	Capital expenditures..do....	13,566	849	1,376	2,161	3,548	2,345	1,997	1,288	...	...	...
	Horsepower.....1,000 hp..	100	3	9	16	28	21	16	7	...	...	...
	Electricity used..mil. kwh..	237	10	23	33	57	47	40	27	...	...	...
2022	<u>Natural cheese:</u>											
	Number of establishments....	1,419	814	258	165	135	41	5	1	...	...	...
	Total employees.....	13,914	2,080	1,776	2,326	4,095	2,672	962	(D)	...	...	...
	Total payroll.....\$1,000..	42,363	5,022	4,461	6,756	13,159	9,452	3,511	(D)	...	...	...
	Production workers:											
	Number.....	11,343	1,711	1,466	1,897	3,326	2,137	804	(D)	...	...	...
	Man-hours.....1,000..	25,672	3,514	3,167	4,366	7,826	4,990	1,805	(D)	...	...	...
	Wages.....\$1,000..	32,826	4,036	3,733	5,342	10,025	6,905	2,783	(D)	...	...	...
	Value added by mfg....do....	88,716	11,684	8,181	13,036	28,104	21,080	6,628	(D)	...	...	...
	Cost of materials.....do....	462,443	101,493	67,832	70,268	116,729	79,468	26,651	(D)	...	...	...
	Value of shipments.....do....	551,159	113,175	76,015	83,305	144,833	100,548	33,280	(D)	...	...	...
	Capital expenditures..do....	9,317	1,835	1,661	1,411	2,171	1,832	405	(D)	...	...	...
	Horsepower.....1,000 hp..	46	2	3	9	16	12	4	(D)	...	...	...
	Electricity used..mil. kwh..	117	15	13	20	33	26	10	(D)	...	...	...
2023	<u>Concentrated milk:</u>											
	Number of establishments....	359	74	38	55	91	72	28	1	...	...	...
	Total employees.....	13,310	219	286	813	2,937	5,051	4,001	(D)	...	...	...
	Total payroll.....\$1,000..	50,513	650	922	2,805	10,921	19,697	15,516	(D)	...	...	...
	Production workers:											
	Number.....	10,900	177	223	638	2,507	4,177	3,175	(D)	...	...	...
	Man-hours.....1,000..	24,583	358	440	1,348	5,417	9,707	7,310	(D)	...	...	...
	Wages.....\$1,000..	39,338	479	682	2,014	8,708	15,731	11,721	(D)	...	...	...
	Value added by mfg....do....	170,566	3,097	2,573	10,218	33,186	67,769	53,720	(D)	...	...	...
	Cost of materials.....do....	517,646	4,494	5,385	26,768	103,275	221,121	156,601	(D)	...	...	...
	Value of shipments.....do....	688,212	7,592	7,957	36,986	136,462	288,891	210,321	(D)	...	...	...
	Capital expenditures..do....	9,818	480	556	905	1,669	3,444	2,761	(D)	...	...	...
	Horsepower.....1,000 hp..	128	3	4	7	30	50	34	(D)	...	...	...
	Electricity used..mil. kwh..	216	2	3	10	51	82	68	(D)	...	...	...
2024	<u>Ice cream and ices:</u>											
	Number of establishments....	1,587	525	278	307	298	120	47	8	4	...	...
	Total employees.....	36,488	1,300	2,026	4,388	9,131	8,161	6,749	2,579	2,150	...	...
	Total payroll.....\$1,000..	134,171	2,856	5,465	13,541	32,338	31,37	26,440	11,778	8,114	...	...
	Production workers:											
	Number.....	20,982	967	1,380	2,767	5,306	4,436	3,711	1,345	1,068	...	...
	Man-hours.....1,000..	42,422	1,738	2,739	5,362	10,480	9,307	7,959	2,845	1,990	...	...
	Wages.....\$1,000..	64,193	2,111	3,442	7,173	15,059	14,291	13,217	5,255	3,643	...	...
	Value added by mfg....do....	327,898	6,920	11,318	30,318	71,555	85,688	73,669	27,658	20,769	...	...
	Cost of materials.....do....	399,534	12,397	17,949	42,882	95,923	96,469	82,915	31,751	19,245	...	...
	Value of shipments.....do....	727,433	19,318	29,268	73,200	167,478	182,157	156,585	59,409	40,015	...	...
	Capital expenditures..do....	25,733	1,157	1,135	3,545	6,377	5,698	5,024	1,682	1,112	...	...
	Horsepower.....1,000 hp..	222	2	8	26	62	63	39	13	9	...	...
	Electricity used..mil. kwh..	444	10	25	52	105	112	96	25	19	...	...
2025	<u>Special dairy products:</u>											
	Number of establishments....	187	45	44	37	22	23	12	3	...	1	...
	Total employees.....	7,300	113	320	516	683	1,639	4,028	(D)	...	(D)	...
	Total payroll.....\$1,000..	26,595	295	1,165	1,786	2,548	5,581	15,218	(D)	...	(D)	...
	Production workers:											
	Number.....	5,847	97	230	378	547	1,291	3,302	(D)	...	(D)	...
	Man-hours.....1,000..	11,701	178	455	749	1,024	2,644	6,647	(D)	...	(D)	...
	Wages.....\$1,000..	20,050	224	746	1,056	1,517	3,982	12,522	(D)	...	(D)	...
	Value added by mfg....do....	56,965	740	2,222	4,687	7,417	11,811	30,085	(D)	...	(D)	...
	Cost of materials.....do....	238,372	3,227	4,402	7,693	13,634	50,916	158,496	(D)	...	(D)	...
	Value of shipments.....do....	295,337	3,968	6,625	12,381	21,051	62,728	188,581	(D)	...	(D)	...
	Capital expenditures..do....	5,776	(1)	(1)	(1)	(1)	3,015	2,016	(D)	...	(D)	...
	Horsepower.....1,000 hp..	33	(2)	(2)	1	4	9	19	(D)	...	(D)	...
	Electricity used..mil. kwh..	55	1	2	4	5	13	30	(D)	...	(D)	...

See footnotes at end of table.

SIZE OF ESTABLISHMENTS

203-7

Table 1.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR MAJOR INDUSTRY GROUPS AND INDUSTRIES: 1954—Con.

Code	Industry group, industry, and item	Total, all estab- lish- ments	Establishments with an average of—									
			1-4 em- ployees	5-9 em- ployees	10-19 em- ployees	20-49 em- ployees	50-99 em- ployees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
2026	Fluid milk:											
	Number of establishments....	1,695	1,022	358	176	100	26	13	...	...	...	...
	Total employees.....	14,086	2,603	2,537	2,470	3,050	1,753	1,672	...	...	...	...
	Total payroll.....\$1,000..	48,085	5,930	7,284	8,098	11,289	7,429	8,055	...	...	...	...
	Production workers:											
	Number.....	9,074	1,986	1,872	1,589	1,740	1,105	780	...	...	...	...
	Man-hours.....1,000..	18,928	3,941	3,945	3,417	3,677	2,271	1,675	...	...	...	...
	Wages.....\$1,000..	27,692	4,664	5,241	4,709	5,611	3,843	3,621	...	...	...	...
	Value added by mfg....do....	98,940	15,695	13,625	15,038	20,362	18,408	15,809	...	...	...	...
	Cost of materials.....do....	253,827	39,901	40,132	36,065	46,336	40,016	51,374	...	...	...	...
	Value of shipments.....do....	352,767	55,598	53,757	51,104	66,698	58,425	67,183	...	...	...	...
	Capital expenditures.....do....	7,496	2,030	1,462	1,282	1,465	615	640	...	...	...	...
	Horsepower.....1,000 hp..	25	1	2	4	6	4	8	...	...	...	...
	Electricity used..mil. kwh..	106	12	23	19	19	17	16	...	...	...	...
2027	Fluid milk & other products:											
	Number of establishments....	4,994	1,238	947	937	961	492	320	79	19	1	...
	Total employees.....	177,311	3,350	6,880	13,372	30,569	34,037	49,075	26,261	<u>13,764</u>	(D)	...
	Total payroll.....\$1,000..	718,960	8,450	19,945	42,929	113,466	137,246	211,153	119,233	<u>66,534</u>	(D)	...
	Production workers:											
	Number.....	79,987	2,568	4,853	7,670	15,092	16,077	19,917	9,719	<u>4,088</u>	(D)	...
	Man-hours.....1,000..	176,922	5,271	10,327	16,293	34,533	35,343	44,840	21,399	<u>8,913</u>	(D)	...
	Wages.....\$1,000..	280,142	6,432	13,443	22,450	49,805	55,834	75,788	38,483	<u>17,903</u>	(D)	...
	Value added by mfg....do....	1,376,698	23,025	41,849	80,746	205,792	260,128	407,089	241,010	<u>117,057</u>	(D)	...
	Cost of materials.....do....	2,857,296	68,787	106,688	200,473	513,728	591,892	765,848	413,784	<u>196,092</u>	(D)	...
	Value of shipments.....do....	4,233,983	91,803	148,538	281,219	719,520	852,021	1,172,936	654,794	<u>313,150</u>	(D)	...
	Capital expenditures.....do....	91,414	2,995	5,127	7,535	17,627	19,395	23,883	10,647	<u>4,202</u>	(D)	...
	Horsepower.....1,000 hp..	556	2	12	34	119	106	159	74	<u>50</u>	(D)	...
	Electricity used..mil. kwh..	1,357	18	48	111	238	278	401	179	<u>84</u>	(D)	...
2031	Canned seafood:											
	Number of establishments....	239	36	20	32	66	55	20	7	2	1	...
	Total employees.....	15,131	80	145	476	2,348	3,793	3,103	2,423	<u>2,759</u>	(D)	...
	Total payroll.....\$1,000..	37,062	194	326	1,131	4,902	7,670	6,235	6,106	<u>10,497</u>	(D)	...
	Production workers:											
	Number.....	14,125	65	122	417	2,204	3,527	2,861	2,330	<u>2,595</u>	(D)	...
	Man-hours.....1,000..	20,995	105	179	627	3,291	5,085	3,499	3,636	<u>4,570</u>	(D)	...
	Wages.....\$1,000..	31,147	116	199	819	4,170	6,287	4,926	5,630	<u>8,997</u>	(D)	...
	Value added by mfg....do....	70,387	488	704	1,836	9,200	12,370	10,702	13,920	<u>21,164</u>	(D)	...
	Cost of materials.....do....	167,995	1,109	1,124	4,085	20,280	27,337	23,612	30,916	<u>59,529</u>	(D)	...
	Value of shipments.....do....	238,382	1,597	1,828	5,922	29,481	39,707	34,314	44,837	<u>80,694</u>	(D)	...
	Capital expenditures.....do....	2,083	(1)	(1)	(1)	(1)	(1)	(1)	(1)	<u>(1)</u>	(D)	...
	Horsepower.....1,000 hp..	46	(2)	(2)	1	14	11	8	6	<u>6</u>	(D)	...
	Electricity used..mil. kwh..	33	(3)	(3)	1	5	10	5	8	<u>4</u>	(D)	...
2032	Cured fish:											
	Number of establishments....	90	31	21	15	16	4	3	...	...	...	...
	Total employees.....	1,726	79	159	219	464	803	(D)	...	...	...	...
	Total payroll.....\$1,000..	5,709	164	508	748	1,533	<u>2,754</u>	(D)	...	...	...	...
	Production workers:											
	Number.....	1,425	67	132	183	375	<u>666</u>	(D)	...	...	...	...
	Man-hours.....1,000..	2,803	122	240	365	722	<u>1,352</u>	(D)	...	...	...	...
	Wages.....\$1,000..	3,686	113	367	554	917	<u>1,734</u>	(D)	...	...	...	...
	Value added by mfg....do....	10,512	480	1,019	1,305	2,884	<u>4,823</u>	(D)	...	...	...	...
	Cost of materials.....do....	25,024	916	3,445	2,884	5,951	<u>11,826</u>	(D)	...	...	...	...
	Value of shipments.....do....	35,536	1,397	4,464	4,190	8,835	<u>16,649</u>	(D)	...	...	...	...
	Capital expenditures.....do....	646	109	37	46	58	<u>394</u>	(D)	...	...	...	...
	Horsepower.....1,000 hp..	3	(2)	(2)	1	(2)	<u>2</u>	(D)	...	...	...	...
	Electricity used..mil. kwh..	5	(3)	1	1	1	<u>1</u>	(D)	...	...	...	...
2033	Canned fruits & vegetables:											
	Number of establishments....	1,758	377	151	232	435	280	195	59	22	5	2
	Total employees.....	119,836	885	1,076	3,386	14,112	19,537	31,361	19,793	13,929	<u>15,755</u>	(D)
	Total payroll.....\$1,000..	354,746	2,120	2,640	8,031	33,537	47,526	91,597	60,116	45,104	<u>64,072</u>	(D)
	Production workers:											
	Number.....	105,613	749	898	2,920	12,403	17,534	27,858	17,792	12,408	<u>13,049</u>	(D)
	Man-hours.....1,000..	206,076	1,330	1,646	5,210	22,650	33,727	55,397	35,982	24,427	<u>25,703</u>	(D)
	Wages.....\$1,000..	276,063	1,347	1,767	5,575	24,148	37,212	72,710	49,779	37,051	<u>46,471</u>	(D)
	Value added by mfg....do....	830,019	5,798	6,158	15,763	68,849	97,084	215,984	133,728	116,211	<u>170,441</u>	(D)
	Cost of materials.....do....	1,398,928	10,313	10,551	33,400	133,130	172,581	376,774	249,957	179,168	<u>233,051</u>	(D)
	Value of shipments.....do....	2,228,947	16,112	16,710	49,163	201,978	269,665	592,759	383,685	295,380	<u>403,492</u>	(D)
	Capital expenditures.....do....	49,916	556	(1)	1,707	5,645	5,583	12,848	5,587	6,068	<u>11,504</u>	(D)
	Horsepower.....1,000 hp..	500	3	2	12	57	101	145	79	52	<u>49</u>	(D)
	Electricity used..mil. kwh..	409	7	4	10	31	42	106	72	71	<u>66</u>	(D)

See footnotes at end of table.

MANUFACTURES—SUMMARY STATISTICS

Table 1.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR MAJOR INDUSTRY GROUPS AND INDUSTRIES: 1954—Con.

Code	Industry group, industry, and item	Total, all estab- lish- ments	Establishments with an average of--										
			1-4 em- ployees	5-9 em- ployees	10-19 em- ployees	20-49 em- ployees	50-99 em- ployees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over	
2034	Dehydrated fruits and vegetables:												
	Number of establishments....	148	45	16	23	30	12	16	5	1	...	...
	Total employees.....	7,011	108	117	328	975	871	2,672	1,937	(D)	...	...
	Total payroll.....\$1,000..	22,026	278	318	888	2,833	2,945	8,612	6,150	(D)	...	...
	Production workers:												
	Number.....	6,102	89	95	285	846	748	2,360	1,676	(D)	...	...
	Man-hours.....1,000..	11,678	171	193	615	1,580	1,504	4,502	3,111	(D)	...	...
	Wages.....\$1,000..	16,477	214	211	665	2,134	2,159	6,490	4,601	(D)	...	...
	Value added by mfg....do....	55,176	811	667	1,919	6,635	5,689	27,426	12,027	(D)	...	...
	Cost of materials.....do....	137,024	2,866	1,562	5,777	23,639	12,565	48,973	41,639	(D)	...	...
	Value of shipments.....do....	192,200	3,677	2,229	7,697	30,274	18,254	76,400	53,666	(D)	...	...
	Capital expenditures..do....	3,421	(1)	(1)	(1)	(1)	(1)	1,349	1,218	(D)	...	...
	Horsepower.....1,000 hp..	30	2	(2)	1	3	3	4	17	(D)	...	...
	Electricity used..mil. kwh..	31	3	(3)	2	3	5	7	11	(D)	...	...
2035	Pickles and sauces:												
	Number of establishments....	717	279	102	116	111	50	43	15	1	...	...
	Total employees.....	21,895	685	723	1,690	3,514	3,339	6,413	5,527	(D)	...	...
	Total payroll.....\$1,000..	67,084	1,414	1,775	4,681	9,821	10,039	19,209	20,143	(D)	...	...
	Production workers:												
	Number.....	18,230	572	597	1,365	2,981	2,803	5,529	4,379	(D)	...	...
	Man-hours.....1,000..	35,977	1,037	1,090	2,598	5,597	5,661	11,051	8,940	(D)	...	...
	Wages.....\$1,000..	47,594	1,011	1,254	3,050	6,671	7,205	14,247	14,152	(D)	...	...
	Value added by mfg....do....	140,925	3,479	5,350	8,075	18,504	20,945	38,783	45,786	(D)	...	...
	Cost of materials.....do....	340,582	7,819	11,992	16,681	40,250	49,268	97,836	116,734	(D)	...	...
	Value of shipments.....do....	481,507	11,298	17,342	24,757	58,754	70,214	136,619	162,520	(D)	...	...
	Capital expenditures..do....	7,579	(1)	(1)	(1)	937	896	1,906	2,732	(D)	...	...
	Horsepower.....1,000 hp..	63	1	1	3	8	8	23	19	(D)	...	...
	Electricity used..mil. kwh..	83	4	4	4	8	8	25	30	(D)	...	...
2036	Packaged seafood:												
	Number of establishments....	295	49	39	72	68	40	20	6	1	...	...
	Total employees.....	12,200	135	295	1,044	2,156	2,667	3,300	2,600	(D)	...	...
	Total payroll.....\$1,000..	27,190	291	756	2,186	4,788	5,356	7,670	6,141	(D)	...	...
	Production workers:												
	Number.....	11,232	114	260	933	1,950	2,475	3,071	2,425	(D)	...	...
	Man-hours.....1,000..	18,779	157	352	1,343	3,036	4,138	4,942	4,808	(D)	...	...
	Wages.....\$1,000..	21,549	158	504	1,696	3,707	4,087	6,210	5,185	(D)	...	...
	Value added by mfg....do....	45,657	750	1,548	3,597	7,123	9,696	12,827	10,112	(D)	...	...
	Cost of materials.....do....	118,968	1,953	4,778	8,809	17,545	25,054	34,723	26,102	(D)	...	...
	Value of shipments.....do....	164,625	2,704	6,326	12,407	24,669	34,751	47,551	36,214	(D)	...	...
	Capital expenditures..do....	2,813	(1)	(1)	(1)	(1)	(1)	779	761	(D)	...	...
	Horsepower.....1,000 hp..	18	(2)	1	1	4	3	6	3	(D)	...	...
	Electricity used..mil. kwh..	40	(3)	1	2	5	8	17	7	(D)	...	...
2037	Frozen fruits and vegetables:												
	Number of establishments....	266	41	24	33	50	54	48	11	3	2	...	
	Total employees.....	21,436	102	161	459	1,684	3,902	7,109	3,474	4,542	(D)	...	
	Total payroll.....\$1,000..	59,238	260	387	954	4,195	9,953	19,124	10,248	14,115	(D)	...	
	Production workers:												
	Number.....	18,638	91	142	415	1,507	3,463	6,374	2,841	3,803	(D)	...	
	Man-hours.....1,000..	36,104	164	288	755	2,680	6,383	11,984	5,680	8,167	(D)	...	
	Wages.....\$1,000..	45,879	191	304	822	3,206	7,904	15,439	7,505	10,503	(D)	...	
	Value added by mfg....do....	148,517	829	883	2,026	8,325	24,816	53,918	23,914	33,803	(D)	...	
	Cost of materials.....do....	268,623	2,459	2,410	6,273	19,117	43,194	95,883	36,995	62,288	(D)	...	
	Value of shipments.....do....	417,140	3,289	3,294	8,299	27,443	68,011	149,801	60,910	96,092	(D)	...	
	Capital expenditures..do....	10,638	(1)	(1)	(1)	760	1,507	3,318	1,334	3,430	(D)	...	
	Horsepower.....1,000 hp..	166	5	(2)	2	8	27	65	24	35	(D)	...	
	Electricity used..mil. kwh..	269	11	2	4	10	45	96	41	60	(D)	...	
2041	Flour and meal:												
	Number of establishments....	803	301	135	107	102	73	71	9	4	1	...	
	Total employees.....	28,969	722	961	1,525	3,342	5,116	10,889	2,892	3,518	(D)	...	
	Total payroll.....\$1,000..	119,844	1,478	2,588	4,940	12,993	20,419	47,169	12,982	17,272	(D)	...	
	Production workers:												
	Number.....	21,447	581	745	1,106	2,541	3,754	7,852	2,067	2,799	(D)	...	
	Man-hours.....1,000..	47,919	1,117	1,702	2,544	5,599	8,273	17,680	4,783	6,218	(D)	...	
	Wages.....\$1,000..	83,813	1,212	1,920	3,221	8,879	13,712	32,111	9,341	13,414	(D)	...	
	Value added by mfg....do....	315,143	4,532	5,043	8,296	26,209	57,047	126,564	35,144	52,306	(D)	...	
	Cost of materials.....do....	1,543,745	14,049	20,821	43,940	177,677	264,413	662,642	183,345	176,854	(D)	...	
	Value of shipments.....do....	1,858,888	18,581	25,864	52,236	203,887	321,461	789,207	218,490	229,160	(D)	...	
	Capital expenditures..do....	15,240	529	543	863	2,253	2,469	5,221	1,553	1,805	(D)	...	
	Horsepower.....1,000 hp..	394	27	8	24	48	66	159	37	25	(D)	...	
	Electricity used..mil. kwh..	920	59	11	27	95	155	423	85	65	(D)	...	

See footnotes at end of table.

SIZE OF ESTABLISHMENTS

203-9

Table 1.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR MAJOR INDUSTRY GROUPS AND INDUSTRIES: 1954—Con.

Code	Industry group, industry, and item	Total, all estab- lish- ments	Establishments with an average of—									
			1-4 em- ployees	5-9 em- ployees	10-19 em- ployees	20-49 em- ployees	50-99 em- ployees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
2042	Prepared animal feeds:											
	Number of establishments....	2,292	720	453	434	379	165	118	22	1	...	...
	Total employees.....	59,890	1,959	3,199	6,320	11,790	11,253	17,528	7,838	(D)	...	...
	Total payroll.....\$1,000..	225,199	4,777	9,013	20,797	41,489	43,918	70,836	34,367	(D)	...	...
	Production workers:											
	Number.....	41,290	1,468	2,444	4,595	8,185	7,286	12,148	5,160	(D)	...	...
	Man-hours.....1,000..	91,220	2,914	5,375	10,396	18,230	15,607	26,604	12,091	(D)	...	...
	Wages.....\$1,000..	138,520	3,413	6,597	13,501	24,732	23,704	44,546	22,023	(D)	...	...
	Value added by mfg....do....	584,135	14,001	19,926	42,125	94,781	98,292	223,900	91,108	(D)	...	...
	Cost of materials.....do....	2,118,132	46,832	72,195	130,124	332,994	377,505	814,459	344,022	(D)	...	...
	Value of shipments.....do....	2,702,267	60,832	92,123	172,249	427,776	475,797	1,038,359	435,130	(D)	...	...
	Capital expenditures.....do....	36,812	2,220	2,643	3,855	9,817	5,690	8,691	3,893	(D)	...	...
	Horsepower.....1,000 hp..	692	14	39	99	156	100	161	123	(D)	...	...
	Electricity used..mil. kwh..	755	22	29	52	111	129	260	152	(D)	...	...
2043	Cereal breakfast foods:											
	Number of establishments....	46	10	6	3	9	4	5	3	3	2	1
	Total employees.....	11,534	23	49	40	307	268	902	3,114	(D)	6,828	(D)
	Total payroll.....\$1,000..	51,002	50	150	192	1,244	1,006	3,829	13,690	(D)	30,838	(D)
	Production workers:											
	Number.....	9,149	17	37	21	227	214	630	2,532	(D)	5,468	(D)
	Man-hours.....1,000..	18,211	28	75	32	448	429	1,254	5,384	(D)	10,558	(D)
	Wages.....\$1,000..	38,062	35	94	52	729	782	2,272	11,026	(D)	23,068	(D)
	Value added by mfg....do....	172,283	99	265	438	3,964	2,952	13,074	40,431	(D)	111,058	(D)
	Cost of materials.....do....	173,559	178	421	443	4,920	2,582	12,797	61,458	(D)	90,756	(D)
	Value of shipments.....do....	345,843	277	686	882	8,885	5,534	25,872	101,890	(D)	201,814	(D)
	Capital expenditures.....do....	4,403	(1)	(1)	(1)	(1)	(1)	(1)	892	(D)	3,153	(D)
	Horsepower.....1,000 hp..	87	1	(2)	(2)	1	2	5	24	(D)	54	(D)
	Electricity used..mil. kwh..	172	10	(3)	(3)	1	2	7	45	(D)	107	(D)
2044	Rice milling:											
	Number of establishments....	80	11	4	7	27	24	6	1	...	...	...
	Total employees.....	3,964	22	22	117	907	1,593	1,300	(D)	...	...	...
	Total payroll.....\$1,000..	13,367	76	48	335	2,744	5,083	5,079	(D)	...	...	...
	Production workers:											
	Number.....	3,129	15	18	89	742	1,302	960	(D)	...	...	...
	Man-hours.....1,000..	7,145	29	36	265	1,651	3,057	2,104	(D)	...	...	...
	Wages.....\$1,000..	8,397	34	34	253	1,840	3,353	2,881	(D)	...	...	...
	Value added by mfg....do....	42,359	178	287	777	10,163	17,770	13,181	(D)	...	...	...
	Cost of materials.....do....	224,502	896	841	4,645	54,843	89,903	73,372	(D)	...	...	...
	Value of shipments.....do....	266,861	1,075	1,129	5,422	65,006	107,674	86,554	(D)	...	...	...
	Capital expenditures.....do....	3,538	(1)	(1)	(1)	680	1,092	1,648	(D)	...	...	...
	Horsepower.....1,000 hp..	58	3	1	1	14	21	18	(D)	...	...	...
	Electricity used..mil. kwh..	57	2	1	2	11	19	22	(D)	...	...	...
2045	Flour mixes:											
	Number of establishments....	131	55	21	21	12	9	8	3	2	...	...
	Total employees.....	5,585	137	148	290	456	659	3,893	(D)	(D)	...	...
	Total payroll.....\$1,000..	25,446	387	511	1,118	1,960	3,381	18,087	(D)	(D)	...	...
	Production workers:											
	Number.....	4,366	101	102	198	310	435	3,218	(D)	(D)	...	...
	Man-hours.....1,000..	8,834	196	195	371	526	748	6,796	(D)	(D)	...	...
	Wages.....\$1,000..	16,982	246	267	508	815	1,325	13,818	(D)	(D)	...	...
	Value added by mfg....do....	103,134	1,272	1,187	1,965	5,519	10,303	82,885	(D)	(D)	...	...
	Cost of materials.....do....	151,001	2,448	2,355	5,702	11,434	14,249	114,811	(D)	(D)	...	...
	Value of shipments.....do....	254,136	3,721	3,543	7,668	16,954	24,552	197,697	(D)	(D)	...	...
	Capital expenditures.....do....	5,353	(1)	(1)	(1)	509	(1)	4,500	(D)	(D)	...	...
	Horsepower.....1,000 hp..	25	(2)	(2)	1	2	4	18	(D)	(D)	...	...
	Electricity used..mil. kwh..	50	1	1	2	2	2	42	(D)	(D)	...	...
2051	Bread and related products:											
	Number of establishments....	6,103	2,063	1,144	872	813	558	474	137	33	9	...
	Total employees.....	246,337	5,489	8,046	12,352	26,170	40,599	73,782	45,732	23,093	11,069	...
	Total payroll.....\$1,000..	973,546	11,299	20,003	35,112	84,212	159,024	312,767	197,346	105,365	48,415	...
	Production workers:											
	Number.....	143,077	4,076	6,124	9,047	17,316	23,426	40,266	26,209	11,194	5,416	...
	Man-hours.....1,000..	293,871	7,508	12,263	18,615	35,673	48,788	82,971	53,321	23,590	11,138	...
	Wages.....\$1,000..	477,972	8,501	15,325	25,313	51,480	77,165	140,503	96,026	43,796	19,861	...
	Value added by mfg....do....	1,568,933	25,818	34,985	57,256	140,787	270,999	512,865	306,487	158,205	61,529	...
	Cost of materials.....do....	1,498,088	34,683	42,505	62,784	142,530	250,712	489,092	302,136	126,883	46,760	...
	Value of shipments.....do....	3,067,017	60,501	77,488	120,041	283,317	521,711	1,001,957	608,624	285,088	108,289	...
	Capital expenditures.....do....	75,725	1,903	2,003	2,729	6,456	13,651	27,710	13,967	5,210	2,093	...
	Horsepower.....1,000 hp..	394	1	4	14	38	75	155	73	23	11	...
	Electricity used..mil. kwh..	959	16	37	50	84	154	305	189	91	33	...

See footnotes at end of table.

Table 1.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR MAJOR INDUSTRY GROUPS AND INDUSTRIES: 1954—Con.

Code	Industry group, industry, and item	Total, all estab- lish- ments	Establishments with an average of—									
			1-4 em- ployees	5-9 em- ployees	10-19 em- ployees	20-49 em- ployees	50-99 em- ployees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
2052	Biscuit and crackers:											
	Number of establishments....	311	59	39	45	46	32	44	18	22	5	1
	Total employees.....	44,763	138	294	640	1,472	2,277	7,519	6,241	26,178	(D)	(D)
	Total payroll.....\$1,000..	150,880	274	645	1,653	3,933	7,444	23,746	21,487	91,696	(D)	(D)
	Production workers:											
	Number.....	35,700	122	252	529	1,231	1,830	5,761	4,559	21,413	(D)	(D)
	Man-hours.....1,000..	68,509	217	455	1,043	2,287	3,604	11,386	8,959	40,555	(D)	(D)
	Wages.....\$1,000..	109,619	229	486	1,209	2,674	4,916	15,654	13,860	70,588	(D)	(D)
	Value added by mfg....do....	408,254	672	1,064	3,465	8,458	14,237	47,717	44,304	288,335	(D)	(D)
	Cost of materials.....do....	348,934	612	1,305	3,385	8,479	14,457	52,908	36,567	231,217	(D)	(D)
	Value of shipments.....do....	757,193	1,285	2,370	6,851	16,937	28,694	100,630	80,871	519,552	(D)	(D)
	Capital expenditures....do....	13,904	(1)	(1)	(1)	636	667	5,092	1,671	5,517	(D)	(D)
	Horsepower.....1,000 hp..	87	(2)	(2)	1	1	3	18	13	51	(D)	(D)
	Electricity used..mil. kwh..	178	(3)	1	2	3	8	24	15	125	(D)	(D)
2061	Raw cane sugar:											
	Number of establishments....	49	2	3	1	17	20	5	1	...	...	...
	Total employees.....	3,078	38	(D)	(D)	601	1,416	1,020	(D)	...	...	...
	Total payroll.....\$1,000..	8,949	91	(D)	(D)	1,722	3,903	3,231	(D)	...	...	...
	Production workers:											
	Number.....	2,719	32	(D)	(D)	526	1,275	883	(D)	...	...	...
	Man-hours.....1,000..	7,231	79	(D)	(D)	1,573	3,453	2,123	(D)	...	...	...
	Wages.....\$1,000..	7,307	70	(D)	(D)	1,472	3,268	2,494	(D)	...	...	...
	Value added by mfg....do....	15,431	191	(D)	(D)	3,900	7,408	3,931	(D)	...	...	...
	Cost of materials.....do....	49,156	628	(D)	(D)	9,286	20,568	18,672	(D)	...	...	...
	Value of shipments.....do....	64,588	820	(D)	(D)	13,187	27,977	22,603	(D)	...	...	...
	Capital expenditures....do....	2,659	(1)	(D)	(D)	(1)	1,383	920	(D)	...	...	...
	Horsepower.....1,000 hp..	103	(2)	(D)	(D)	17	34	52	(D)	...	...	...
	Electricity used..mil. kwh..	42	25	(D)	(D)	2	9	6	(D)	...	...	...
2062	Cane-sugar refining:											
	Number of establishments....	23	...	...	...	3	1	...	5	7	7	...
	Total employees.....	16,068	...	...	...	1,685	(D)	...	(D)	5,003	9,378	...
	Total payroll.....\$1,000..	66,431	...	...	...	6,114	(D)	...	(D)	21,163	39,152	...
	Production workers:											
	Number.....	12,932	...	...	...	1,475	(D)	...	(D)	4,050	7,405	...
	Man-hours.....1,000..	26,061	...	...	...	3,127	(D)	...	(D)	8,792	14,140	...
	Wages.....\$1,000..	50,350	...	...	...	4,966	(D)	...	(D)	16,015	29,367	...
	Value added by mfg....do....	138,971	...	...	...	16,955	(D)	...	(D)	40,048	81,968	...
	Cost of materials.....do....	725,141	...	...	...	83,347	(D)	...	(D)	231,169	410,625	...
	Value of shipments.....do....	864,113	...	...	...	100,302	(D)	...	(D)	271,217	492,593	...
	Capital expenditures....do....	10,553	...	...	...	594	(D)	...	(D)	2,531	7,426	...
	Horsepower.....1,000 hp..	136	...	...	...	25	(D)	...	(D)	51	60	...
	Electricity used..mil. kwh..	284	...	...	...	21	(D)	...	(D)	80	183	...
2063	Beet sugar:											
	Number of establishments....	65	...	...	...	1	4	52	7	1	...	...
	Total employees.....	11,019	...	...	...	377	(D)	7,936	2,705	(D)	...	...
	Total payroll.....\$1,000..	42,453	...	...	...	1,473	(D)	31,037	9,942	(D)	...	...
	Production workers:											
	Number.....	9,431	...	...	...	309	(D)	6,673	2,448	(D)	...	...
	Man-hours.....1,000..	19,911	...	...	...	654	(D)	14,548	4,708	(D)	...	...
	Wages.....\$1,000..	35,245	...	...	...	1,105	(D)	25,357	8,782	(D)	...	...
	Value added by mfg....do....	96,357	...	...	...	2,934	(D)	72,447	20,975	(D)	...	...
	Cost of materials.....do....	194,891	...	...	...	4,705	(D)	128,243	61,943	(D)	...	...
	Value of shipments.....do....	291,248	...	...	...	7,639	(D)	200,690	82,918	(D)	...	...
	Capital expenditures....do....	5,910	...	...	...	(1)	(D)	4,144	1,693	(D)	...	...
	Horsepower.....1,000 hp..	226	...	...	...	8	(D)	167	51	(D)	...	...
	Electricity used..mil. kwh..	241	...	...	...	3	(D)	154	84	(D)	...	...
2071	Confectionery products:											
	Number of establishments....	1,434	575	216	197	199	108	90	28	11	10	...
	Total employees.....	66,799	1,308	1,519	2,808	6,297	7,873	14,731	9,531	7,312	15,417	...
	Total payroll.....\$1,000..	201,706	2,177	3,131	6,710	16,291	23,132	44,768	33,528	20,485	51,482	...
	Production workers:											
	Number.....	55,220	1,081	1,309	2,353	5,354	6,566	12,134	7,619	5,766	13,036	...
	Man-hours.....1,000..	107,952	1,828	2,286	4,333	9,778	13,207	24,778	15,474	11,002	25,262	...
	Wages.....\$1,000..	143,850	1,751	2,462	5,039	11,792	16,245	31,205	23,237	14,347	37,770	...
	Value added by mfg....do....	422,314	5,391	6,168	13,250	34,611	48,268	86,013	72,343	41,843	114,424	...
	Cost of materials.....do....	570,282	7,619	10,063	21,496	52,739	71,429	109,567	94,362	56,580	146,425	...
	Value of shipments.....do....	992,597	13,010	16,232	34,747	87,351	119,697	195,580	166,706	98,423	260,849	...
	Capital expenditures....do....	13,399	507	(1)	(1)	956	1,785	2,763	1,944	795	3,870	...
	Horsepower.....1,000 hp..	203	3	2	3	9	15	82	24	14	51	...
	Electricity used..mil. kwh..	303	13	5	11	18	24	61	57	26	88	...

See footnotes at end of table.

SIZE OF ESTABLISHMENTS

203-11

Table 1.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR MAJOR INDUSTRY GROUPS AND INDUSTRIES: 1954—Con.

Code	Industry group, industry, and item	Total, all estab- lish- ments	Establishments with an average of—									2,500 employees and over
			1-4 em- ployees	5-9 em- ployees	10-19 em- ployees	20-49 em- ployees	50-99 em- ployees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	
2072	Chocolate and cocoa products:											
	Number of establishments....	28	1	...	3	3	8	7	2	2	1	1
	Total employees.....	8,465	47	(D)	(D)	86	528	1,111	6,690	(D)	(D)	(D)
	Total payroll.....\$1,000..	33,133	196	(D)	(D)	312	2,413	4,873	25,336	(D)	(D)	(D)
	Production workers:											
	Number.....	6,677	39	(D)	(D)	80	388	788	5,379	(D)	(D)	(D)
	Man-hours.....1,000..	13,503	75	(D)	(D)	153	751	1,689	10,832	(D)	(D)	(D)
	Wages.....\$1,000..	23,219	130	(D)	(D)	221	1,329	2,662	18,875	(D)	(D)	(D)
	Value added by mfg....do....	81,745	2,094	(D)	(D)	708	5,703	10,666	62,573	(D)	(D)	(D)
	Cost of materials.....do....	351,096	5,066	(D)	(D)	3,801	26,196	52,879	263,152	(D)	(D)	(D)
	Value of shipments.....do....	432,842	7,160	(D)	(D)	4,510	31,899	63,546	325,725	(D)	(D)	(D)
	Capital expenditures.....do....	3,636	(1)	(D)	(D)	(1)	562	(1)	2,610	(D)	(D)	(D)
	Horsepower.....1,000 hp..	99	10	(D)	(D)	1	9	16	63	(D)	(D)	(D)
	Electricity used..mil. kwh..	179	27	(D)	(D)	2	13	21	116	(D)	(D)	(D)
2073	Chewing gum:											
	Number of establishments....	28	2	7	3	2	3	5	3	1	2	...
	Total employees.....	5,161	58	(D)	108	(D)	210	746	993	3,043	(D)	...
	Total payroll.....\$1,000..	20,149	228	(D)	384	(D)	740	2,352	4,008	12,434	(D)	...
	Production workers:											
	Number.....	4,019	41	(D)	83	(D)	153	561	801	2,377	(D)	...
	Man-hours.....1,000..	7,806	81	(D)	164	(D)	299	1,112	1,655	4,492	(D)	...
	Wages.....\$1,000..	14,034	119	(D)	221	(D)	381	1,503	2,853	8,954	(D)	...
	Value added by mfg....do....	92,150	463	(D)	708	(D)	1,227	5,318	12,562	71,871	(D)	...
	Cost of materials.....do....	65,930	1,041	(D)	734	(D)	1,168	5,455	9,473	48,057	(D)	...
	Value of shipments.....do....	158,081	1,505	(D)	1,442	(D)	2,395	10,773	22,035	119,928	(D)	...
	Capital expenditures.....do....	4,235	2,412	(D)	(1)	(D)	(1)	(1)	(1)	1,393	(D)	...
	Horsepower.....1,000 hp..	17	1	(D)	1	(D)	1	6	2	6	(D)	...
	Electricity used..mil. kwh..	31	7	(D)	(3)	(D)	2	5	7	13	(D)	...
2081	Bottled soft drinks:											
	Number of establishments....	4,643	1,213	1,036	1,144	913	216	102	18	...	1	...
	Total employees.....	91,616	3,362	7,573	16,325	27,521	14,462	14,367	8,003	...	(D)	...
	Total payroll.....\$1,000..	319,879	8,358	21,306	49,387	91,390	52,542	62,781	34,113	...	(D)	...
	Production workers:											
	Number.....	41,575	2,442	4,597	8,274	13,004	5,397	5,003	2,855	...	(D)	...
	Man-hours.....1,000..	80,584	4,715	9,287	15,809	22,923	11,580	10,440	5,828	...	(D)	...
	Wages.....\$1,000..	109,519	5,800	11,422	19,176	28,633	15,252	18,306	10,927	...	(D)	...
	Value added by mfg....do....	635,045	19,197	41,904	97,459	183,589	109,673	119,944	63,277	...	(D)	...
	Cost of materials.....do....	478,034	18,383	36,574	81,798	142,966	85,958	75,990	36,362	...	(D)	...
	Value of shipments.....do....	1,113,077	37,577	78,477	179,259	326,556	195,631	195,935	99,639	...	(D)	...
	Capital expenditures.....do....	47,731	1,902	3,631	7,282	13,015	8,566	7,807	5,524	...	(D)	...
	Horsepower.....1,000 hp..	148	1	18	25	48	23	22	11	...	(D)	...
	Electricity used..mil. kwh..	257	4	16	48	79	41	46	23	...	(D)	...
2082	Beer and ale:											
	Number of establishments....	301	12	6	17	58	49	71	49	26	9	4
	Total employees.....	81,346	30	42	258	1,943	3,458	11,206	18,230	18,257	14,244	13,675
	Total payroll.....\$1,000..	420,546	126	142	816	7,605	14,712	53,142	94,153	94,320	77,352	78,176
	Production workers:											
	Number.....	53,698	22	31	178	1,308	2,267	6,860	12,223	12,775	8,846	9,184
	Man-hours.....1,000..	105,923	48	66	371	2,717	4,544	13,482	24,902	25,110	17,491	17,189
	Wages.....\$1,000..	261,497	81	103	500	4,731	8,672	30,066	59,504	62,465	46,342	49,030
	Value added by mfg....do....	1,100,741	285	226	1,421	16,230	33,647	121,734	244,849	252,640	208,197	221,510
	Cost of materials.....do....	756,311	383	187	918	10,502	23,394	76,714	170,738	191,560	128,328	153,585
	Value of shipments.....do....	1,857,053	669	413	2,339	26,733	57,042	198,448	415,587	444,200	336,525	375,095
	Capital expenditures.....do....	114,534	(1)	(1)	(1)	944	2,102	5,707	53,940	19,109	25,249	7,380
	Horsepower.....1,000 hp..	446	19	(2)	3	17	28	75	103	83	52	66
	Electricity used..mil. kwh..	807	35	(3)	2	19	36	106	192	203	90	124
2083	Malt:											
	Number of establishments....	45	...	2	9	18	11	3	2	...	...	...
	Total employees.....	2,603	...	157	(D)	599	811	1,035	(D)	...	...	...
	Total payroll.....\$1,000..	14,627	...	865	(D)	3,211	4,317	6,233	(D)	...	...	...
	Production workers:											
	Number.....	2,036	...	119	(D)	470	661	785	(D)	...	...	...
	Man-hours.....1,000..	4,096	...	245	(D)	978	1,311	1,560	(D)	...	...	...
	Wages.....\$1,000..	10,167	...	564	(D)	2,289	3,365	3,948	(D)	...	...	...
	Value added by mfg....do....	48,149	...	1,443	(D)	9,424	18,093	19,187	(D)	...	...	...
	Cost of materials.....do....	153,838	...	13,553	(D)	32,551	47,059	60,674	(D)	...	...	...
	Value of shipments.....do....	201,988	...	14,997	(D)	41,976	65,153	79,862	(D)	...	...	...
	Capital expenditures.....do....	3,257	...	(1)	(D)	511	997	1,564	(D)	...	...	...
	Horsepower.....1,000 hp..	83	...	4	(D)	15	30	34	(D)	...	...	...
	Electricity used..mil. kwh..	163	...	7	(D)	25	61	70	(D)	...	...	...

See footnotes at end of table.

MANUFACTURES—SUMMARY STATISTICS

Table 1.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR MAJOR INDUSTRY GROUPS AND INDUSTRIES: 1954—Con.

Code	Industry group, industry, and item	Total, all estab- lish- ments	Establishments with an average of—									
			1-4 em- ployees	5-9 em- ployees	10-19 em- ployees	20-49 em- ployees	50-99 em- ployees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
2084	Wines and brandy:											
	Number of establishments....	262	111	47	38	36	16	12	2	...	...	...
	Total employees.....	5,724	287	344	541	1,067	1,138	2,344	(D)	...	...	...
	Total payroll.....\$1,000..	23,258	779	1,239	2,033	4,162	4,714	10,330	(D)	...	...	...
	Production workers:											
	Number.....	4,328	233	255	422	838	794	1,783	(D)	...	...	...
	Man-hours.....1,000..	8,393	436	495	771	1,535	1,574	3,579	(D)	...	...	...
	Wages.....\$1,000..	13,749	591	809	1,275	2,388	2,727	5,957	(D)	...	...	...
	Value added by mfg....do....	96,749	3,393	4,413	7,036	13,235	14,307	54,363	(D)	...	...	...
	Cost of materials.....do....	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(D)	...	...	...
	Value of shipments.....do....	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(D)	...	...	...
	Capital expenditures....do....	2,216	101	189	276	423	409	815	(D)	...	...	...
	Horsepower.....1,000 hp..	38	1	5	5	10	7	10	(D)	...	...	...
	Electricity used..mil. kwh..	49	5	3	6	13	9	13	(D)	...	...	...
2085	Distilled liquor:											
	Number of establishments....	133	15	8	13	29	21	22	12	10	3	...
	Total employees.....	21,505	46	55	212	936	1,408	3,354	4,322	6,341	4,827	...
	Total payroll.....\$1,000..	89,367	143	151	650	3,378	5,560	14,456	18,903	27,308	18,815	...
	Production workers:											
	Number.....	17,117	32	40	174	741	1,147	2,442	3,421	4,984	4,134	...
	Man-hours.....1,000..	32,892	62	60	279	1,399	2,122	5,484	6,791	9,667	7,024	...
	Wages.....\$1,000..	65,504	95	113	422	2,125	3,834	9,845	13,806	20,265	14,995	...
	Value added by mfg....do....	356,741	812	1,429	1,463	11,492	10,744	57,570	78,391	117,117	77,719	...
	Cost of materials.....do....	354,571	865	1,239	2,487	10,953	21,900	53,963	78,229	100,326	84,606	...
	Value of shipments.....do....	711,313	1,678	2,669	3,950	22,445	32,645	111,534	156,620	217,444	162,325	...
	Capital expenditures....do....	8,863	(1)	(1)	(1)	(1)	585	1,608	2,497	1,187	2,681	...
	Horsepower.....1,000 hp..	134	(2)	(2)	(2)	5	9	28	30	38	24	...
	Electricity used..mil. kwh..	174	(3)	2	3	4	11	34	25	47	48	...
2091	Leavening compounds:											
	Number of establishments....	43	10	7	4	7	6	7	2	...	...	...
	Total employees.....	2,685	29	46	52	228	466	1,863	(D)	...	...	...
	Total payroll.....\$1,000..	12,246	74	187	259	998	2,072	8,655	(D)	...	...	...
	Production workers:											
	Number.....	1,987	22	28	30	168	332	1,406	(D)	...	...	...
	Man-hours.....1,000..	3,840	38	47	66	348	651	2,688	(D)	...	...	...
	Wages.....\$1,000..	8,696	60	92	125	678	1,351	6,388	(D)	...	...	...
	Value added by mfg....do....	45,350	499	425	644	2,437	7,453	33,891	(D)	...	...	...
	Cost of materials.....do....	25,834	413	417	563	1,754	5,396	17,289	(D)	...	...	...
	Value of shipments.....do....	71,185	912	843	1,207	4,192	12,849	51,181	(D)	...	...	...
	Capital expenditures....do....	1,604	(1)	(1)	(1)	(1)	(1)	1,013	(D)	...	...	...
	Horsepower.....1,000 hp..	63	(2)	(2)	1	4	6	52	(D)	...	...	...
	Electricity used..mil. kwh..	70	(3)	(3)	(3)	5	6	59	(D)	...	...	...
2092	Shortening and cooking oils:											
	Number of establishments....	102	26	13	12	4	10	28	7	2	...	...
	Total employees.....	9,398	58	101	299	(D)	733	4,644	3,562	(D)	...	...
	Total payroll.....\$1,000..	42,414	162	289	1,217	(D)	3,106	20,610	17,029	(D)	...	...
	Production workers:											
	Number.....	6,755	45	76	210	(D)	554	3,260	2,608	(D)	...	...
	Man-hours.....1,000..	14,016	76	124	409	(D)	1,148	6,806	5,451	(D)	...	...
	Wages.....\$1,000..	27,571	116	178	660	(D)	2,059	13,083	11,473	(D)	...	...
	Value added by mfg....do....	175,988	475	857	4,490	(D)	16,889	95,583	57,691	(D)	...	...
	Cost of materials.....do....	759,347	938	3,094	18,079	(D)	70,448	400,191	266,577	(D)	...	...
	Value of shipments.....do....	935,338	1,414	3,952	22,587	(D)	87,338	495,777	324,269	(D)	...	...
	Capital expenditures....do....	10,971	(1)	(1)	(1)	(D)	677	4,275	5,710	(D)	...	...
	Horsepower.....1,000 hp..	111	1	1	7	(D)	13	51	44	(D)	...	...
	Electricity used..mil. kwh..	240	7	1	7	(D)	18	114	93	(D)	...	...
2093	Margarine:											
	Number of establishments....	33	2	...	1	10	10	9	1	...	...	...
	Total employees.....	2,626	386	...	(D)	(D)	664	1,575	(D)	...	...	...
	Total payroll.....\$1,000..	10,463	1,580	...	(D)	(D)	2,480	6,402	(D)	...	...	...
	Production workers:											
	Number.....	1,835	315	...	(D)	(D)	441	1,076	(D)	...	...	...
	Man-hours.....1,000..	3,681	701	...	(D)	(D)	830	2,148	(D)	...	...	...
	Wages.....\$1,000..	6,314	1,283	...	(D)	(D)	1,267	3,762	(D)	...	...	...
	Value added by mfg....do....	42,467	5,444	...	(D)	(D)	8,433	28,589	(D)	...	...	...
	Cost of materials.....do....	149,876	28,255	...	(D)	(D)	38,044	83,574	(D)	...	...	...
	Value of shipments.....do....	192,343	33,701	...	(D)	(D)	46,478	112,163	(D)	...	...	...
	Capital expenditures....do....	1,478	583	...	(D)	(D)	(1)	627	(D)	...	...	...
	Horsepower.....1,000 hp..	17	4	...	(D)	(D)	3	10	(D)	...	...	...
	Electricity used..mil. kwh..	34	5	...	(D)	(D)	10	19	(D)	...	...	...

See footnotes at end of table.

SIZE OF ESTABLISHMENTS

203-13

Table 1.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR MAJOR INDUSTRY GROUPS AND INDUSTRIES: 1954—Con.

Code	Industry group, industry, and item	Total, all estab- lish- ments	Establishments with an average of—									
			1-4 em- ployees	5-9 em- ployees	10-19 em- ployees	20-49 em- ployees	50-99 em- ployees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
2094	Corn wet milling:											
	Number of establishments....	58	15	11	11	6	3	...	3	4	4	1
	Total employees.....	13,565	46	79	160	169	213	...	1,049	2,749	9,098	(D)
	Total payroll.....\$1,000..	60,030	145	270	518	608	929	...	5,365	12,984	39,208	(D)
	Production workers:											
	Number.....	10,584	33	59	123	124	174	...	860	2,136	7,073	(D)
	Man-hours.....1,000..	21,008	68	134	272	284	371	...	1,969	4,474	13,433	(D)
	Wages.....\$1,000..	43,172	97	169	362	383	583	...	4,383	9,292	27,901	(D)
	Value added by mfg....do....	176,696	412	731	1,264	2,039	2,772	...	17,889	38,198	113,388	(D)
	Cost of materials.....do....	281,746	665	1,225	1,874	2,745	3,681	...	24,660	58,531	188,362	(D)
	Value of shipments.....do....	458,442	1,077	1,957	3,139	4,785	6,454	...	42,549	96,729	301,751	(D)
	Capital expenditures..do....	16,391	(1)	(1)	(1)	(1)	(1)	...	809	2,288	12,883	(D)
	Horsepower.....1,000 hp..	221	(2)	1	2	1	2	...	31	46	138	(D)
	Electricity used..mil. kwh..	696	(3)	1	3	4	4	...	114	166	404	(D)
2095	Flavorings:											
	Number of establishments....	558	280	99	70	59	30	16	4	...	...	...
	Total employees.....	10,593	676	685	1,006	1,831	2,199	2,529	1,666	...	...	...
	Total payroll.....\$1,000..	45,060	1,859	2,641	4,188	8,407	9,688	11,218	7,058	...	...	...
	Production workers:											
	Number.....	6,543	501	467	660	1,104	1,477	1,335	997	...	...	...
	Man-hours.....1,000..	12,402	955	897	1,081	1,961	2,881	2,655	1,971	...	...	...
	Wages.....\$1,000..	20,308	1,207	1,423	1,744	3,229	4,698	4,385	3,620	...	...	...
	Value added by mfg....do....	219,445	4,741	8,845	13,210	33,023	89,775	29,222	40,627	...	...	...
	Cost of materials.....do....	226,611	6,543	8,756	16,816	37,564	76,568	33,387	46,969	...	...	...
	Value of shipments.....do....	446,056	11,285	17,603	30,027	70,587	166,347	62,609	87,596	...	...	...
	Capital expenditures..do....	6,642	(1)	(1)	850	988	1,751	787	1,603	...	...	...
	Horsepower.....1,000 hp..	36	(2)	1	3	6	4	12	10	...	...	...
	Electricity used..mil. kwh..	76	3	5	7	21	8	13	19	...	...	...
2097	Manufactured ice:											
	Number of establishments....	1,963	829	527	355	207	40	3	2	...	...	...
	Total employees.....	20,854	2,282	3,776	4,953	6,018	2,738	1,084	(D)	...	...	...
	Total payroll.....\$1,000..	61,811	5,383	9,789	15,006	19,775	8,137	3,718	(D)	...	...	...
	Production workers:											
	Number.....	12,880	1,721	2,490	3,285	3,673	1,211	497	(D)	...	...	...
	Man-hours.....1,000..	27,975	3,726	5,690	6,956	7,124	2,627	1,850	(D)	...	...	...
	Wages.....\$1,000..	35,593	3,959	6,321	8,776	10,339	3,582	2,612	(D)	...	...	...
	Value added by mfg....do....	115,469	12,184	19,276	28,556	37,051	11,565	6,835	(D)	...	...	...
	Cost of materials.....do....	27,811	4,767	5,225	6,003	7,043	3,329	1,442	(D)	...	...	...
	Value of shipments.....do....	143,280	16,951	24,502	34,560	44,094	14,894	8,277	(D)	...	...	...
	Capital expenditures..do....	7,761	735	1,034	1,280	2,878	1,503	(1)	(D)	...	...	...
	Horsepower.....1,000 hp..	452	36	87	137	124	42	26	(D)	...	...	...
	Electricity used..mil. kwh..	1,060	93	168	241	357	146	55	(D)	...	...	...
2098	Macaroni and spaghetti:											
	Number of establishments....	233	86	40	23	41	23	17	3	...	...	...
	Total employees.....	7,058	208	281	306	1,343	1,642	2,407	867	...	...	...
	Total payroll.....\$1,000..	24,278	401	720	748	4,295	5,728	8,617	3,768	...	...	...
	Production workers:											
	Number.....	5,276	161	230	243	1,033	1,208	1,821	577	...	...	...
	Man-hours.....1,000..	10,216	273	413	422	2,052	2,220	3,580	1,253	...	...	...
	Wages.....\$1,000..	14,465	290	540	539	2,837	3,267	5,112	1,877	...	...	...
	Value added by mfg....do....	50,951	1,177	1,505	1,723	7,984	11,336	18,415	8,809	...	...	...
	Cost of materials.....do....	98,704	5,655	2,732	3,211	14,254	22,393	33,274	17,182	...	...	...
	Value of shipments.....do....	149,656	6,833	4,238	4,935	22,239	33,730	51,690	25,991	...	...	...
	Capital expenditures..do....	2,469	(1)	(1)	(1)	(1)	636	843	(1)	...	...	...
	Horsepower.....1,000 hp..	27	(2)	1	1	4	8	9	4	...	...	...
	Electricity used..mil. kwh..	81	1	2	3	11	33	21	10	...	...	...
2099	Food preparations, nec:											
	Number of establishments....	2,599	1,029	476	391	384	163	115	28	11	2	...
	Total employees.....	71,952	2,489	3,374	5,579	12,195	11,408	16,702	9,592	10,611	(D)	...
	Total payroll.....\$1,000..	251,440	5,259	9,042	17,161	40,443	40,128	61,579	38,556	39,268	(D)	...
	Production workers:											
	Number.....	52,761	1,887	2,613	4,247	8,763	8,238	12,170	6,611	8,230	(D)	...
	Man-hours.....1,000..	103,702	3,399	4,863	8,098	17,129	15,729	24,416	13,266	16,799	(D)	...
	Wages.....\$1,000..	146,907	3,609	5,938	10,708	22,253	20,873	36,138	21,096	26,289	(D)	...
	Value added by mfg....do....	806,298	14,664	20,931	43,772	91,703	99,045	242,626	147,397	146,158	(D)	...
	Cost of materials.....do....	2,449,670	41,644	61,604	164,163	369,161	257,067	795,903	392,446	367,672	(D)	...
	Value of shipments.....do....	3,255,967	56,308	82,535	207,935	460,864	356,119	1,038,530	539,844	513,830	(D)	...
	Capital expenditures..do....	38,168	2,703	1,455	3,431	5,614	4,362	12,067	5,085	3,448	(D)	...
	Horsepower.....1,000 hp..	177	10	5	12	29	24	45	25	27	(D)	...
	Electricity used..mil. kwh..	444	20	27	53	67	53	120	44	60	(D)	...

See footnotes at end of table.

Table 1.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR MAJOR INDUSTRY GROUPS AND INDUSTRIES: 1954—Con.

Code	Industry group, industry, and item	Total, all estab- lish- ments	Establishments with an average of—									
			1-4 em- ployees	5-9 em- ployees	10-19 em- ployees	20-49 em- ployees	50-99 em- ployees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
21	Tobacco manufactures:											
	Number of establishments....	627	234	62	40	56	60	86	47	22	19	1
	Total employees.....	94,863	495	444	608	1,825	4,260	13,769	17,339	15,415	40,708	(D)
	Total payroll.....\$1,000..	259,689	706	841	1,416	4,159	10,199	31,873	42,374	38,178	129,943	(D)
	Production workers:											
	Number.....	87,073	427	401	539	1,674	3,744	12,429	15,504	14,496	37,859	(D)
	Man-hours.....1,000..	162,988	604	641	925	3,213	7,477	23,266	27,967	26,317	72,578	(D)
	Wages.....\$1,000..	219,736	561	644	1,000	3,222	7,451	24,859	33,817	34,030	114,152	(D)
	Value added by mfg....do....	988,001	1,396	1,295	2,367	6,267	18,603	65,441	96,747	79,229	716,656	(D)
	Cost of materials.....do....	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(D)
	Value of shipments.....do....	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(D)
	Capital expenditures.....do....	28,018	(1)	(1)	(1)	(1)	1,260	2,895	2,041	897	20,408	(D)
	Horsepower.....1,000 hp..	256	(2)	(2)	(2)	3	13	34	27	29	150	(D)
	Electricity used..mil. kwh..	330	2	(3)	(3)	3	9	36	37	40	203	(D)
2111	Cigarettes:											
	Number of establishments....	19	...	1	...	1	2	2	...	1	11	1
	Total employees.....	29,987	...	541	...	(D)	(D)	(D)	...	29,444	(D)	(D)
	Total payroll.....\$1,000..	103,779	...	1,996	...	(D)	(D)	(D)	...	101,781	(D)	(D)
	Production workers:											
	Number.....	27,694	...	458	...	(D)	(D)	(D)	...	27,233	(D)	(D)
	Man-hours.....1,000..	53,643	...	833	...	(D)	(D)	(D)	...	52,807	(D)	(D)
	Wages.....\$1,000..	91,067	...	1,398	...	(D)	(D)	(D)	...	89,667	(D)	(D)
	Value added by mfg....do....	677,252	...	6,082	...	(D)	(D)	(D)	...	671,169	(D)	(D)
	Cost of materials.....do....	963,698	...	8,964	...	(D)	(D)	(D)	...	954,732	(D)	(D)
	Value of shipments.....do....	1,640,950	...	15,047	...	(D)	(D)	(D)	...	1,625,901	(D)	(D)
	Capital expenditures.....do....	20,362	...	606	...	(D)	(D)	(D)	...	19,754	(D)	(D)
	Horsepower.....1,000 hp..	144	...	5	...	(D)	(D)	(D)	...	139	(D)	(D)
	Electricity used..mil. kwh..	182	...	3	...	(D)	(D)	(D)	...	179	(D)	(D)
2121	Cigars:											
	Number of establishments....	410	206	50	25	30	22	28	26	17	6	...
	Total employees.....	38,494	427	355	378	928	1,599	4,451	21,041	(D)	9,313	...
	Total payroll.....\$1,000..	89,259	572	592	723	1,905	3,429	9,875	48,923	(D)	23,239	...
	Production workers:											
	Number.....	36,076	369	323	350	863	1,445	4,170	19,711	(D)	8,842	...
	Man-hours.....1,000..	65,720	514	501	598	1,501	2,716	7,593	35,406	(D)	16,889	...
	Wages.....\$1,000..	78,455	461	481	600	1,569	2,772	8,371	43,570	(D)	20,628	...
	Value added by mfg....do....	165,312	1,116	970	1,366	2,984	5,548	18,559	93,417	(D)	41,350	...
	Cost of materials.....do....	174,139	1,253	1,365	2,131	3,172	5,505	18,689	69,189	(D)	45,832	...
	Value of shipments.....do....	339,452	2,369	2,336	3,498	6,157	11,054	37,249	189,606	(D)	87,182	...
	Capital expenditures.....do....	2,884	(1)	(1)	(1)	(1)	550	(1)	1,112	(D)	561	...
	Horsepower.....1,000 hp..	20	(2)	(2)	(2)	1	1	2	12	(D)	4	...
	Electricity used..mil. kwh..	56	2	(3)	(3)	1	2	6	31	(D)	14	...
2131	Chewing and smoking tobacco:											
	Number of establishments....	65	23	6	8	5	5	9	7	1	1	...
	Total employees.....	7,535	56	2,484	(D)	(D)	(D)	(D)	4,992	(D)	(D)	...
	Total payroll.....\$1,000..	23,372	106	7,018	(D)	(D)	(D)	(D)	16,245	(D)	(D)	...
	Production workers:											
	Number.....	6,444	48	2,142	(D)	(D)	(D)	(D)	4,251	(D)	(D)	...
	Man-hours.....1,000..	11,729	71	3,789	(D)	(D)	(D)	(D)	7,864	(D)	(D)	...
	Wages.....\$1,000..	17,229	74	4,954	(D)	(D)	(D)	(D)	12,197	(D)	(D)	...
	Value added by mfg....do....	80,057	227	23,262	(D)	(D)	(D)	(D)	56,565	(D)	(D)	...
	Cost of materials.....do....	81,681	270	23,433	(D)	(D)	(D)	(D)	57,975	(D)	(D)	...
	Value of shipments.....do....	161,739	498	46,698	(D)	(D)	(D)	(D)	114,540	(D)	(D)	...
	Capital expenditures.....do....	1,205	10	(1)	(D)	(D)	(D)	(D)	892	(D)	(D)	...
	Horsepower.....1,000 hp..	27	(2)	6	(D)	(D)	(D)	(D)	12	(D)	(D)	...
	Electricity used..mil. kwh..	23	(2)	5	(D)	(D)	(D)	(D)	18	(D)	(D)	...
2141	Tobacco stemming and redrying:											
	Number of establishments....	133	5	5	7	20	31	47	14	3	1	...
	Total employees.....	18,846	12	151	(D)	711	2,198	7,110	8,661	(D)	(D)	...
	Total payroll.....\$1,000..	43,278	28	454	(D)	1,642	5,207	15,647	20,297	(D)	(D)	...
	Production workers:											
	Number.....	16,857	10	131	(D)	654	1,911	6,340	7,808	(D)	(D)	...
	Man-hours.....1,000..	31,894	19	243	(D)	1,414	4,032	12,302	13,881	(D)	(D)	...
	Wages.....\$1,000..	32,983	26	294	(D)	1,292	3,633	11,812	15,923	(D)	(D)	...
	Value added by mfg....do....	65,378	53	528	(D)	2,093	8,023	24,558	30,120	(D)	(D)	...
	Cost of materials.....do....	977,834	166	1,884	(D)	17,228	79,636	273,593	605,322	(D)	(D)	...
	Value of shipments.....do....	1,043,213	219	2,413	(D)	19,322	87,660	298,151	635,445	(D)	(D)	...
	Capital expenditures.....do....	3,566	(1)	(1)	(D)	(1)	532	1,780	1,015	(D)	(D)	...
	Horsepower.....1,000 hp..	65	(2)	(2)	(D)	2	9	24	30	(D)	(D)	...
	Electricity used..mil. kwh..	69	(3)	(3)	(D)	2	5	24	38	(D)	(D)	...

See footnotes at end of table.

SIZE OF ESTABLISHMENTS

203-15

Table 1.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR MAJOR INDUSTRY GROUPS AND INDUSTRIES: 1954—Con.

Code	Industry group, industry, and item	Total all establishments	Establishments with an average of—									
			1-4 em- ployees	5-9 em- ployees	10-19 em- ployees	20-49 em- ployees	50-99 em- ployees	100-249 employees	250-499 employees	500-999 employees	1,000-2,499 employees	2,500 employees and over
22	Textile mill products:											
	Number of establishments....	8,070	1,264	862	1,082	1,562	1,058	1,154	611	328	136	13
	Total employees.....	1,037,440	3,228	6,250	15,687	50,823	75,204	185,393	215,015	224,717	261,120	(D)
	Total payroll.....\$1,000..	3,032,490	8,868	19,431	48,743	152,464	223,500	555,059	626,348	644,841	753,233	(D)
	Production workers:											
	Number.....	947,502	2,683	5,288	13,600	45,244	67,782	168,697	197,580	206,789	239,836	(D)
	Man-hours.....1,000..	1,821,075	4,976	9,957	25,627	86,494	129,140	324,049	384,359	397,986	458,482	(D)
	Wages.....\$1,000..	2,526,564	6,168	14,287	36,430	119,467	175,244	451,089	527,082	550,137	646,657	(D)
	Value added by mfg....do....	4,748,586	22,772	37,651	88,555	250,834	345,899	888,722	971,354	999,773	1,143,023	(D)
	Cost of materials.....do....	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(D)
	Value of shipments.....do....	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(D)
	Capital expenditures..do....	225,914	1,921	1,897	5,068	13,761	16,039	35,341	43,769	45,863	62,252	(D)
	Horsepower.....1,000 hp..	4,595	279	9	50	145	193	739	923	1,096	1,161	(D)
	Electricity used..mil. kwh..	12,322	507	71	100	271	399	1,538	2,531	3,191	3,714	(D)
2211	Scouring and combing plants:											
	Number of establishments....	74	10	8	8	18	10	11	6	3	...	...
	Total employees.....	7,013	23	55	122	595	734	1,599	2,050	1,833	...	...
	Total payroll.....\$1,000..	24,300	74	173	402	2,086	2,493	5,734	6,993	6,344	...	...
	Production workers:											
	Number.....	6,363	20	42	106	512	648	1,470	1,840	1,723	...	...
	Man-hours.....1,000..	12,616	32	77	212	1,009	1,288	2,864	3,570	3,562	...	...
	Wages.....\$1,000..	20,134	42	105	338	1,590	1,955	4,804	5,721	5,576	...	...
	Value added by mfg....do....	35,084	161	463	663	3,657	3,085	7,689	11,062	8,302	...	...
	Cost of materials.....do....	59,084	452	700	723	4,109	897	8,007	42,822	1,371	...	...
	Value of shipments.....do....	94,168	614	1,164	1,387	7,767	3,982	15,696	53,884	9,673	...	...
	Capital expenditures..do....	2,391	(1)	(1)	(1)	(1)	552	597	(1)	663	...	...
	Horsepower.....1,000 hp..	44	(2)	(2)	1	5	7	8	16	7	...	...
	Electricity used..mil. kwh..	59	(3)	(3)	(3)	4	6	15	18	16	...	...
2212	Yarn mills, wool, except carpet:											
	Number of establishments....	171	15	5	17	41	36	39	14	4	...	...
	Total employees.....	17,840	38	37	256	1,308	2,535	6,377	4,743	2,544	...	...
	Total payroll.....\$1,000..	51,730	95	129	599	3,599	7,341	19,085	14,001	6,879	...	...
	Production workers:											
	Number.....	16,511	33	28	219	1,195	2,379	5,876	4,341	2,439	...	...
	Man-hours.....1,000..	31,150	57	60	343	2,284	4,530	10,877	8,202	4,796	...	...
	Wages.....\$1,000..	44,085	68	83	435	2,952	6,410	16,074	11,716	6,346	...	...
	Value added by mfg....do....	78,971	136	180	1,106	5,574	10,669	27,626	23,708	9,971	...	...
	Cost of materials.....do....	172,642	372	585	5,543	8,254	16,655	57,722	54,898	28,609	...	...
	Value of shipments.....do....	251,614	508	765	6,650	13,829	27,325	85,349	78,606	38,580	...	...
	Capital expenditures..do....	3,302	(1)	(1)	(1)	(1)	(1)	1,185	954	(1)	...	...
	Horsepower.....1,000 hp..	85	2	1	1	9	8	29	24	11	...	...
	Electricity used..mil. kwh..	180	4	1	2	7	18	55	54	39	...	...
2213	Woolen and worsted fabrics:											
	Number of establishments....	343	38	16	24	56	31	99	62	10	6	1
	Total employees.....	62,466	89	113	328	1,935	2,212	16,153	22,590	6,499	12,545	(D)
	Total payroll.....\$1,000..	214,246	250	350	1,019	5,718	6,949	56,200	79,034	21,080	43,645	(D)
	Production workers:											
	Number.....	55,702	74	98	276	1,748	1,993	14,577	20,525	5,622	10,785	(D)
	Man-hours.....1,000..	111,650	142	180	523	3,264	3,812	29,055	41,655	11,435	21,580	(D)
	Wages.....\$1,000..	174,696	188	259	740	4,703	5,670	45,863	66,130	16,378	34,763	(D)
	Value added by mfg....do....	315,706	426	475	1,847	8,355	9,064	81,772	120,645	30,835	62,284	(D)
	Cost of materials.....do....	574,576	1,372	780	3,498	16,700	15,502	127,518	216,619	68,692	123,891	(D)
	Value of shipments.....do....	890,281	1,799	1,256	5,345	25,056	24,566	209,290	337,263	99,527	186,175	(D)
	Capital expenditures..do....	11,714	(1)	(1)	(1)	(1)	2,086	2,438	3,472	1,570	1,813	(D)
	Horsepower.....1,000 hp..	353	50	(2)	19	10	10	103	95	31	35	(D)
	Electricity used..mil. kwh..	506	14	1	3	11	10	120	173	91	83	(D)
2216	Finishing wool textiles:											
	Number of establishments....	56	5	5	5	21	11	5	3	1	...	...
	Total employees.....	4,215	17	38	63	698	828	804	1,763	(D)	...	...
	Total payroll.....\$1,000..	15,489	70	152	218	2,534	2,987	2,943	6,581	(D)	...	...
	Production workers:											
	Number.....	3,513	15	34	51	601	721	657	1,430	(D)	...	...
	Man-hours.....1,000..	7,076	31	63	102	1,156	1,348	1,368	3,004	(D)	...	...
	Wages.....\$1,000..	11,304	60	115	150	1,899	2,205	2,047	4,825	(D)	...	...
	Value added by mfg....do....	23,143	124	333	334	4,117	3,750	6,815	7,669	(D)	...	...
	Cost of materials.....do....	9,644	40	135	137	1,179	1,352	3,986	2,812	(D)	...	...
	Value of shipments.....do....	32,788	164	469	471	5,297	5,102	10,801	10,481	(D)	...	...
	Capital expenditures..do....	1,307	(1)	(1)	(1)	561	(1)	(1)	(1)	(D)	...	...
	Horsepower.....1,000 hp..	34	7	(2)	1	3	5	2	16	(D)	...	...
	Electricity used..mil. kwh..	35	9	(3)	(3)	2	5	3	16	(D)	...	...

See footnotes at end of table.

MANUFACTURES—SUMMARY STATISTICS

Table 1.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR MAJOR INDUSTRY GROUPS AND INDUSTRIES: 1954—Con.

Code	Industry group, industry, and item	Total, all estab- lish- ments	Establishments with an average of—									
			1-4 em- ployees	5-9 em- ployees	10-19 em- ployees	20-49 em- ployees	50-99 em- ployees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
2222	<u>Yarn throwing mills:</u>											
	Number of establishments....	137	19	7	12	24	39	28	6	2	...	...
	Total employees.....	11,840	47	48	161	866	2,822	4,544	3,350	(D)	...	...
	Total payroll.....\$1,000..	32,046	101	148	383	2,189	6,923	13,020	9,281	(D)	...	...
	Production workers:											
	Number.....	10,849	43	46	146	804	2,642	4,151	3,015	(D)	...	...
	Man-hours.....1,000..	21,327	80	76	258	1,598	5,188	8,100	6,025	(D)	...	...
	Wages.....\$1,000..	26,790	90	100	308	1,805	5,830	10,689	7,967	(D)	...	...
	Value added by mfg....do....	53,964	186	344	513	3,593	10,301	22,399	16,625	(D)	...	...
	Cost of materials.....do....	45,263	186	163	541	5,395	6,921	23,253	8,801	(D)	...	...
	Value of shipments.....do....	99,227	373	508	1,054	8,989	17,223	45,652	25,427	(D)	...	...
	Capital expenditures.....do....	3,211	(1)	(1)	(1)	577	553	1,191	814	(D)	...	...
	Horsepower.....1,000 hp..	64	1	(2)	(2)	4	15	25	19	(D)	...	...
	Electricity used..mil. kwh..	236	5	1	1	6	35	97	91	(D)	...	...
2223	<u>Thread mills:</u>											
	Number of establishments....	97	18	15	11	17	10	8	9	7	2	...
	Total employees.....	13,908	50	100	138	599	750	1,344	3,507	7,417	(D)	...
	Total payroll.....\$1,000..	38,281	131	314	395	2,018	2,377	4,064	9,778	19,202	(D)	...
	Production workers:											
	Number.....	12,221	47	80	117	506	648	1,191	2,917	6,712	(D)	...
	Man-hours.....1,000..	22,807	80	154	205	961	1,260	2,232	5,295	12,618	(D)	...
	Wages.....\$1,000..	29,267	99	182	250	1,283	1,607	2,840	6,885	16,117	(D)	...
	Value added by mfg....do....	62,694	340	500	531	3,244	4,216	5,822	23,275	24,764	(D)	...
	Cost of materials.....do....	121,052	845	1,029	1,555	6,955	6,014	10,447	32,057	62,147	(D)	...
	Value of shipments.....do....	183,746	1,185	1,529	2,087	10,200	10,230	16,269	55,333	86,912	(D)	...
	Capital expenditures.....do....	8,543	(1)	(1)	(1)	(1)	(1)	1,098	(1)	6,549	(D)	...
	Horsepower.....1,000 hp..	66	13	(2)	(2)	3	3	6	13	28	(D)	...
	Electricity used..mil. kwh..	188	29	3	3	4	5	18	37	89	(D)	...
2224	<u>Yarn mills, cotton system:</u>											
	Number of establishments....	357	21	9	14	29	44	134	62	37	7	...
	Total employees.....	85,275	44	72	209	971	3,351	22,904	21,195	24,272	12,255	...
	Total payroll.....\$1,000..	197,292	120	223	598	2,230	7,199	50,986	48,875	57,257	29,802	...
	Production workers:											
	Number.....	80,944	37	57	174	858	3,148	21,787	20,213	23,187	11,480	...
	Man-hours.....1,000..	144,959	61	91	311	1,514	5,657	39,132	36,920	40,625	20,646	...
	Wages.....\$1,000..	175,558	73	100	415	1,684	6,204	45,220	43,676	51,675	26,509	...
	Value added by mfg....do....	298,833	213	432	885	3,662	10,271	72,613	72,413	91,545	46,797	...
	Cost of materials.....do....	731,793	440	713	912	5,312	22,721	168,143	181,766	220,271	131,513	...
	Value of shipments.....do....	1,030,627	654	1,145	1,798	8,975	32,992	240,757	254,179	311,816	178,310	...
	Capital expenditures.....do....	18,501	(1)	(1)	(1)	(1)	824	3,805	4,232	4,746	4,690	...
	Horsepower.....1,000 hp..	583	4	(2)	1	9	18	169	162	153	67	...
	Electricity used..mil. kwh..	1,576	87	1	2	9	49	401	398	437	192	...
2233	<u>Cotton broad-woven fabrics:</u>											
	Number of establishments....	582	43	28	35	48	20	71	136	115	81	5
	Total employees.....	296,193	113	206	528	1,605	1,363	11,918	48,813	79,248	118,887	33,509
	Total payroll.....\$1,000..	783,011	306	623	1,759	4,910	4,272	32,557	125,509	211,354	310,706	91,012
	Production workers:											
	Number.....	280,546	100	187	462	1,423	1,247	11,213	46,540	75,279	112,788	31,303
	Man-hours.....1,000..	537,531	198	353	869	2,778	2,438	21,711	90,997	145,025	214,568	58,591
	Wages.....\$1,000..	702,649	232	516	1,339	3,862	3,593	28,046	112,861	191,431	280,888	79,877
	Value added by mfg....do....	1,127,507	570	1,231	2,426	7,159	7,192	49,607	171,344	309,595	449,769	128,610
	Cost of materials.....do....	1,662,114	934	1,535	3,408	8,556	9,561	74,274	269,777	443,247	672,070	178,749
	Value of shipments.....do....	2,789,621	1,504	2,767	5,835	15,715	16,754	123,882	441,121	752,843	1,121,840	307,359
	Capital expenditures.....do....	55,200	(1)	(1)	(1)	(1)	(1)	1,444	12,301	14,364	21,415	4,851
	Horsepower.....1,000 hp..	1,536	64	(2)	1	3	2	54	241	453	538	180
	Electricity used..mil. kwh..	5,332	196	1	2	5	8	144	826	1,590	2,042	518
2234	<u>Synthetic broad-woven fabrics:</u>											
	Number of establishments....	478	47	44	40	78	71	87	61	37	13	...
	Total employees.....	89,994	120	316	577	2,677	5,024	14,243	21,754	26,381	18,899	...
	Total payroll.....\$1,000..	272,872	324	1,080	1,885	7,652	15,896	44,443	66,357	76,655	58,576	...
	Production workers:											
	Number.....	83,120	101	278	491	2,416	4,607	13,222	20,217	24,577	17,207	...
	Man-hours.....1,000..	116,984	148	510	872	4,535	9,141	26,349	41,650	49,312	34,463	...
	Wages.....\$1,000..	234,476	219	795	1,352	6,450	13,385	37,902	57,805	67,721	48,843	...
	Value added by mfg....do....	422,765	623	1,635	3,041	11,989	23,169	70,184	106,698	114,195	91,227	...
	Cost of materials.....do....	719,864	1,623	2,270	3,236	14,086	34,159	118,330	210,693	205,968	129,496	...
	Value of shipments.....do....	1,142,629	2,247	3,905	6,278	26,076	57,328	188,515	317,391	320,164	220,723	...
	Capital expenditures.....do....	12,995	(1)	(1)	(1)	797	577	2,116	4,045	2,911	2,417	...
	Horsepower.....1,000 hp..	458	67	1	1	5	13	54	100	95	122	...
	Electricity used..mil. kwh..	1,426	70	4	3	13	37	182	377	395	345	...

See footnotes at end of table.

SIZE OF ESTABLISHMENTS

203-17

Table 1.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR MAJOR INDUSTRY GROUPS AND INDUSTRIES: 1954—Con.

Code	Industry group, industry, and item	Total, all estab- lish- ments	Establishments with an average of—									
			1-4 em- ployees	5-9 em- ployees	10-19 em- ployees	20-49 em- ployees	50-99 em- ployees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
2241	Narrow fabric mills:											
	Number of establishments....	513	99	76	86	110	70	55	14	3	...	...
	Total employees.....	25,676	270	575	1,228	3,611	4,970	8,734	4,571	1,714	...	...
	Total payroll.....\$1,000..	79,063	698	1,605	3,637	10,520	14,529	28,196	14,922	4,954	...	...
	Production workers:											
	Number.....	22,862	248	515	1,074	3,208	4,489	7,672	4,068	1,584	...	...
	Man-hours.....1,000..	44,962	468	955	2,175	6,271	8,901	15,098	7,970	3,122	...	...
	Wages.....\$1,000..	61,456	561	1,237	2,769	8,089	11,512	21,746	11,632	3,907	...	...
	Value added by mfg....do....	121,547	1,429	2,870	5,705	16,653	21,910	47,925	18,604	6,449	...	...
	Cost of materials.....do....	128,615	1,687	3,333	6,593	17,664	20,903	48,452	22,684	7,295	...	...
	Value of shipments.....do....	250,162	3,117	6,203	12,299	34,317	42,813	96,377	41,289	13,744	...	...
	Capital expenditures..do....	4,802	(1)	(1)	(1)	697	598	1,893	536	(1)	...	...
	Horsepower.....1,000 hp..	56	3	1	1	6	8	14	21	2	...	...
	Electricity used..mil. kwh..	101	4	2	4	11	20	36	18	6	...	...
2251	Full-fashioned hosiery mills:											
	Number of establishments....	789	154	106	109	166	109	85	36	22	1	1
	Total employees.....	60,150	376	775	1,581	5,203	7,571	12,600	12,081	19,959	(D)	(D)
	Total payroll.....\$1,000..	178,454	960	2,139	5,036	14,996	21,851	37,494	37,412	58,563	(D)	(D)
	Production workers:											
	Number.....	55,023	321	707	1,554	4,773	6,835	11,599	10,937	18,292	(D)	(D)
	Man-hours.....1,000..	101,925	589	1,256	2,952	9,052	12,818	21,119	20,960	33,175	(D)	(D)
	Wages.....\$1,000..	151,619	701	1,869	4,276	13,142	18,256	31,464	31,784	50,124	(D)	(D)
	Value added by mfg....do....	266,993	2,436	3,446	8,392	22,924	30,130	55,694	56,618	87,349	(D)	(D)
	Cost of materials.....do....	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(D)	(D)
	Value of shipments.....do....	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(D)	(D)
	Capital expenditures..do....	7,698	(1)	(1)	(1)	811	1,060	955	1,529	2,720	(D)	(D)
	Horsepower.....1,000 hp..	92	2	(2)	2	8	10	25	18	27	(D)	(D)
	Electricity used..mil. kwh..	329	6	3	6	20	35	67	69	123	(D)	(D)
2252	Seamless hosiery mills:											
	Number of establishments....	609	64	34	67	141	133	105	47	14	4	...
	Total employees.....	63,350	161	242	981	4,598	9,393	16,450	16,068	9,341	6,113	...
	Total payroll.....\$1,000..	135,481	310	454	1,684	8,775	18,878	35,170	33,913	20,008	16,287	...
	Production workers:											
	Number.....	59,656	144	215	896	4,344	8,791	15,496	15,146	8,923	5,697	...
	Man-hours.....1,000..	105,905	269	354	1,456	7,481	15,549	27,511	26,557	15,884	10,840	...
	Wages.....\$1,000..	117,455	241	339	1,486	7,863	15,979	29,953	29,450	17,734	14,408	...
	Value added by mfg....do....	202,477	525	894	3,745	14,227	27,757	50,382	50,979	26,304	27,660	...
	Cost of materials.....do....	226,773	530	1,052	3,994	15,455	34,603	56,984	65,233	25,603	23,315	...
	Value of shipments.....do....	429,251	1,055	1,947	7,740	29,683	62,361	107,366	116,213	51,908	50,976	...
	Capital expenditures..do....	12,986	(1)	(1)	505	1,105	2,055	1,929	2,149	1,465	3,440	...
	Horsepower.....1,000 hp..	46	1	(2)	3	6	12	10	6	8	...	...
	Electricity used..mil. kwh..	147	2	(3)	1	8	15	25	52	17	27	...
2253	Knit outerwear mills:											
	Number of establishments....	1,083	184	163	207	285	141	78	19	5	1	...
	Total employees.....	46,403	500	1,187	2,994	9,008	9,756	11,790	6,639	4,525	(D)	...
	Total payroll.....\$1,000..	139,182	1,408	3,724	8,543	27,652	30,459	34,782	17,993	14,618	(D)	...
	Production workers:											
	Number.....	41,345	356	905	2,611	8,065	8,775	10,797	6,113	3,720	(D)	...
	Man-hours.....1,000..	75,955	614	1,619	4,639	14,526	15,605	20,183	11,513	7,254	(D)	...
	Wages.....\$1,000..	104,490	742	2,288	6,440	20,932	22,580	27,887	14,366	9,251	(D)	...
	Value added by mfg....do....	231,702	5,158	8,843	18,386	46,163	52,993	54,868	26,363	18,926	(D)	...
	Cost of materials.....do....	312,431	12,536	23,468	27,667	58,829	68,409	67,550	34,981	18,987	(D)	...
	Value of shipments.....do....	544,129	17,694	32,312	46,054	104,992	121,402	122,415	61,344	37,914	(D)	...
	Capital expenditures..do....	9,853	(1)	(1)	1,005	2,406	2,308	1,685	996	1,053	(D)	...
	Horsepower.....1,000 hp..	25	1	1	1	6	5	5	4	2	(D)	...
	Electricity used..mil. kwh..	309	12	40	40	82	36	38	31	30	(D)	...
2254	Knit underwear mills:											
	Number of establishments....	149	6	5	5	23	35	46	16	9	2	2
	Total employees.....	31,262	45	(D)	81	792	2,548	7,082	5,812	7,047	7,853	(D)
	Total payroll.....\$1,000..	77,501	25	(D)	150	1,722	5,880	16,451	13,860	17,740	21,601	(D)
	Production workers:											
	Number.....	28,248	41	(D)	73	721	2,353	6,412	5,313	6,355	6,978	(D)
	Man-hours.....1,000..	51,204	62	(D)	110	1,185	4,227	11,815	9,811	11,406	12,586	(D)
	Wages.....\$1,000..	63,095	80	(D)	124	1,368	4,736	13,512	11,549	14,547	17,176	(D)
	Value added by mfg....do....	110,591	131	(D)	212	2,543	9,084	24,566	19,278	26,501	28,273	(D)
	Cost of materials.....do....	145,699	173	(D)	232	2,882	10,355	32,053	31,680	38,575	29,747	(D)
	Value of shipments.....do....	256,290	305	(D)	444	5,426	19,440	56,637	50,940	65,077	58,019	(D)
	Capital expenditures..do....	2,982	(1)	(D)	(1)	(1)	(1)	539	(1)	515	1,454	(D)
	Horsepower.....1,000 hp..	33	4	(D)	(2)	1	1	7	4	5	11	(D)
	Electricity used..mil. kwh..	70	13	(D)	(3)	1	2	11	10	14	19	(D)

See footnotes at end of table.

Table 1.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR MAJOR INDUSTRY GROUPS AND INDUSTRIES: 1954—Con.

Code	Industry group, industry, and item	Total, all estab- lish- ments	Establishments with an average of—									
			1-4 em- ployees	5-9 em- ployees	10-19 em- ployees	20-49 em- ployees	50-99 em- ployees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
2255	Knit glove mills:											
	Number of establishments....	29	2	2	5	10	6	2	2	...	...	...
	Total employees.....	2,025	16	(D)	72	341	408	1,187	(D)	...	...	...
	Total payroll.....\$1,000..	4,871	56	(D)	154	871	1,024	2,766	(D)	...	...	...
	Production workers:											
	Number.....	1,855	14	(D)	65	289	369	1,116	(D)	...	...	...
	Man-hours.....1,000..	3,258	24	(D)	114	584	705	1,829	(D)	...	...	...
	Wages.....\$1,000..	3,966	49	(D)	132	645	901	2,238	(D)	...	...	...
	Value added by mfg....do....	6,192	132	(D)	175	1,065	1,342	3,476	(D)	...	...	...
	Cost of materials.....do....	5,595	56	(D)	104	1,111	1,291	3,032	(D)	...	...	...
	Value of shipments.....do....	11,787	188	(D)	280	2,177	2,633	6,509	(D)	...	...	...
	Capital expenditures.....do....	(1)	(1)	(D)	(1)	(1)	(1)	(1)	(D)	...	...	...
	Horsepower.....1,000 hp..	1	(2)	(D)	(2)	(2)	(2)	(2)	(D)	...	...	...
	Electricity used..mil. kwh..	2	(3)	(D)	(3)	(3)	1	1	(D)	...	...	...
2256	Knit fabric mills:											
	Number of establishments....	340	60	58	69	80	28	31	12	2	...	...
	Total employees.....	16,812	165	403	1,026	2,415	2,026	5,441	5,334	(D)	...	...
	Total payroll.....\$1,000..	57,878	617	1,523	3,905	8,939	7,224	19,404	16,265	(D)	...	...
	Production workers:											
	Number.....	14,680	124	332	843	2,125	1,655	4,750	4,849	(D)	...	...
	Man-hours.....1,000..	30,560	232	668	1,749	4,735	3,364	9,672	10,138	(D)	...	...
	Wages.....\$1,000..	44,621	325	1,036	2,812	7,110	4,794	14,838	13,703	(D)	...	...
	Value added by mfg....do....	113,122	1,493	3,596	8,409	16,246	11,429	39,581	32,366	(D)	...	...
	Cost of materials.....do....	264,262	5,055	9,165	21,179	39,281	33,254	84,653	71,671	(D)	...	...
	Value of shipments.....do....	377,383	6,548	12,762	29,589	55,528	44,683	124,234	104,038	(D)	...	...
	Capital expenditures.....do....	6,214	(1)	(1)	(1)	2,338	(1)	1,369	1,277	(D)	...	...
	Horsepower.....1,000 hp..	62	2	1	2	7	6	24	20	(D)	...	...
	Electricity used..mil. kwh..	162	5	3	8	14	13	46	73	(D)	...	...
2259	Knitting mills, nec:											
	Number of establishments....	46	12	8	12	6	4	4	...	...	...	...
	Total employees.....	1,359	29	63	181	457	(D)	628	...	...	...	...
	Total payroll.....\$1,000..	3,950	64	180	602	1,263	(D)	1,841	...	...	...	...
	Production workers:											
	Number.....	1,167	25	55	149	388	(D)	549	...	...	...	...
	Man-hours.....1,000..	2,218	48	108	281	711	(D)	1,069	...	...	...	...
	Wages.....\$1,000..	2,846	53	149	426	834	(D)	1,383	...	...	...	...
	Value added by mfg....do....	7,059	183	318	1,102	2,676	(D)	2,778	...	...	...	...
	Cost of materials.....do....	8,746	236	526	1,213	2,336	(D)	4,432	...	...	...	...
	Value of shipments.....do....	15,805	420	845	2,316	5,013	(D)	7,210	...	...	...	...
	Capital expenditures.....do....	(1)	(1)	(1)	(1)	(1)	(D)	(1)	...	...	...	...
	Horsepower.....1,000 hp..	1	(2)	(2)	(2)	(2)	(D)	(2)	...	...	...	...
	Electricity used..mil. kwh..	3	(3)	(3)	1	1	(D)	1	...	...	...	...
2261	Finishing textiles except wool:											
	Number of establishments....	725	134	84	104	125	90	103	48	29	7	1
	Total employees.....	79,308	336	619	1,515	3,911	6,683	16,269	16,729	20,412	12,829	(D)
	Total payroll.....\$1,000..	292,324	1,215	2,203	5,686	15,198	27,537	62,898	59,550	75,226	42,809	(D)
	Production workers:											
	Number.....	68,485	283	530	1,255	3,320	5,770	14,373	14,448	17,204	11,298	(D)
	Man-hours.....1,000..	142,839	607	1,107	2,462	7,039	12,235	29,793	29,520	36,223	23,851	(D)
	Wages.....\$1,000..	228,262	877	1,839	4,153	11,660	20,458	49,197	47,087	57,881	35,107	(D)
	Value added by mfg....do....	464,165	3,572	3,790	9,233	24,840	42,821	97,183	96,238	118,441	68,044	(D)
	Cost of materials.....do....	533,979	3,103	2,348	6,287	16,915	42,115	101,310	112,489	105,330	144,078	(D)
	Value of shipments.....do....	998,144	6,675	6,139	15,521	41,756	84,936	198,493	208,727	223,771	212,123	(D)
	Capital expenditures.....do....	21,900	(1)	(1)	611	1,019	1,263	3,850	4,122	4,632	5,804	(D)
	Horsepower.....1,000 hp..	391	30	1	6	24	27	66	94	85	58	(D)
	Electricity used..mil. kwh..	798	30	5	7	28	46	129	182	196	175	(D)
2271	Wool carpets and rugs:											
	Number of establishments....	98	10	6	12	20	12	13	9	6	8	2
	Total employees.....	30,076	21	44	193	700	932	1,908	3,269	3,708	19,300	(D)
	Total payroll.....\$1,000..	111,009	43	123	585	2,202	3,076	6,892	12,828	13,750	71,509	(D)
	Production workers:											
	Number.....	25,336	19	32	168	597	878	1,669	2,812	3,282	15,876	(D)
	Man-hours.....1,000..	48,852	29	56	305	1,145	1,610	3,150	5,368	6,506	30,680	(D)
	Wages.....\$1,000..	86,199	34	91	468	1,633	2,553	5,516	9,547	11,212	55,143	(D)
	Value added by mfg....do....	191,409	93	204	905	3,605	4,002	11,298	21,893	23,903	125,506	(D)
	Cost of materials.....do....	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(D)
	Value of shipments.....do....	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(D)
	Capital expenditures.....do....	12,605	(1)	(1)	(1)	(1)	(1)	(1)	2,360	2,676	6,832	(D)
	Horsepower.....1,000 hp..	134	7	(2)	1	3	7	14	8	23	71	(D)
	Electricity used..mil. kwh..	191	8	(3)	1	2	8	10	12	36	114	(D)

See footnotes at end of table.

SIZE OF ESTABLISHMENTS

203-19

Table 1.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR MAJOR INDUSTRY GROUPS AND INDUSTRIES: 1954—Con.

Code	Industry group, industry, and item	Total, all estab- lish- ments	Establishments with an average of—									
			1-4 em- ployees	5-9 em- ployees	10-19 em- ployees	20-49 em- ployees	50-99 em- ployees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
2273	<u>Carpets and rugs, except wool:</u>											
	Number of establishments....	213	55	20	32	49	27	27	1	1	1	...
	Total employees.....	11,479	128	147	463	1,635	2,003	4,496	2,603	(D)	(D)	...
	Total payroll.....\$1,000..	30,735	224	400	1,056	3,890	4,812	13,194	7,156	(D)	(D)	...
	Production workers:											
	Number.....	10,178	110	132	406	1,468	1,820	3,879	2,359	(D)	(D)	...
	Man-hours.....1,000..	19,862	176	259	746	2,735	3,522	7,990	4,430	(D)	(D)	...
	Wages.....\$1,000..	23,085	174	298	822	3,034	3,647	9,482	5,623	(D)	(D)	...
	Value added by mfg....do....	67,110	443	693	2,317	7,885	9,503	31,081	15,185	(D)	(D)	...
	Cost of materials.....do....	107,900	577	1,148	3,912	10,106	17,889	54,486	19,778	(D)	(D)	...
	Value of shipments.....do....	175,010	1,020	1,842	6,229	17,992	27,392	85,568	34,963	(D)	(D)	...
	Capital expenditures..do....	4,957	(1)	(1)	(1)	757	(1)	2,407	1,068	(D)	(D)	...
	Horsepower.....1,000 hp..	28	(2)	(2)	(2)	3	2	17	6	(D)	(D)	...
	Electricity used..mil. kwh..	59	(3)	(3)	1	11	7	24	16	(D)	(D)	...
2274	<u>Hard-surface floor cover- ings:</u>											
	Number of establishments....	16	...	...	...	1	...	7	2	5	...	1
	Total employees.....	9,638	...	...	...	1,749	...	(D)	(D)	7,887	...	(D)
	Total payroll.....\$1,000..	43,596	...	...	...	7,717	...	(D)	(D)	35,877	...	(D)
	Production workers:											
	Number.....	8,242	...	...	...	1,544	...	(D)	(D)	6,696	...	(D)
	Man-hours.....1,000..	17,382	...	...	...	3,274	...	(D)	(D)	14,106	...	(D)
	Wages.....\$1,000..	35,918	...	...	...	6,064	...	(D)	(D)	29,852	...	(D)
	Value added by mfg....do....	102,337	...	...	...	20,874	...	(D)	(D)	81,462	...	(D)
	Cost of materials.....do....	79,248	...	...	...	16,144	...	(D)	(D)	63,103	...	(D)
	Value of shipments.....do....	181,582	...	...	...	37,019	...	(D)	(D)	144,563	...	(D)
	Capital expenditures..do....	6,352	...	...	...	1,204	...	(D)	(D)	5,147	...	(D)
	Horsepower.....1,000 hp..	93	...	...	...	20	...	(D)	(D)	73	...	(D)
	Electricity used..mil. kwh..	143	...	...	...	22	...	(D)	(D)	121	...	(D)
2281	<u>Fur-felt hats and hat bodies:</u>											
	Number of establishments....	91	27	10	9	15	16	7	3	2	2	...
	Total employees.....	8,180	58	73	136	486	1,129	1,086	1,034	4,176	(D)	...
	Total payroll.....\$1,000..	27,258	140	242	375	1,316	3,558	3,504	3,472	14,651	(D)	...
	Production workers:											
	Number.....	7,028	50	64	125	453	981	979	843	3,531	(D)	...
	Man-hours.....1,000..	12,248	90	114	244	777	1,742	1,679	1,707	5,893	(D)	...
	Wages.....\$1,000..	21,317	99	165	317	1,128	2,775	2,915	2,214	11,701	(D)	...
	Value added by mfg....do....	39,160	529	477	586	1,659	4,870	4,459	6,194	20,384	(D)	...
	Cost of materials.....do....	31,445	664	825	477	1,568	5,475	4,814	6,826	10,794	(D)	...
	Value of shipments.....do....	70,605	1,193	1,303	1,064	3,228	10,345	9,274	13,019	31,178	(D)	...
	Capital expenditures..do....	588	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(D)	...
	Horsepower.....1,000 hp..	30	16	(2)	(2)	1	2	2	(2)	9	(D)	...
	Electricity used..mil. kwh..	19	2	(3)	(3)	1	3	3	1	9	(D)	...
2282	<u>Wool-felt hats and hat bodies:</u>											
	Number of establishments....	32	12	6	3	4	3	2	1	1	...	...
	Total employees.....	1,750	38	43	39	116	171	1,341	(D)	(D)	...	...
	Total payroll.....\$1,000..	4,951	75	134	130	360	423	3,827	(D)	(D)	...	...
	Production workers:											
	Number.....	1,552	31	35	34	99	152	1,198	(D)	(D)	...	...
	Man-hours.....1,000..	2,809	48	64	64	185	291	2,154	(D)	(D)	...	...
	Wages.....\$1,000..	3,862	54	81	112	301	334	2,977	(D)	(D)	...	...
	Value added by mfg....do....	7,250	131	275	282	540	603	5,418	(D)	(D)	...	...
	Cost of materials.....do....	6,308	65	549	262	359	563	4,508	(D)	(D)	...	...
	Value of shipments.....do....	13,559	196	825	544	900	1,166	9,926	(D)	(D)	...	...
	Capital expenditures..do....	(1)	...	...	(1)	(1)	(1)	(1)	(D)	(D)	...	...
	Horsepower.....1,000 hp..	5	...	(2)	(2)	(2)	(2)	5	(D)	(D)	...	...
	Electricity used..mil. kwh..	4	...	(3)	(3)	(3)	(3)	4	(D)	(D)	...	...
2283	<u>Straw hats:</u>											
	Number of establishments....	48	6	7	10	13	7	3	2	...	...	...
	Total employees.....	2,294	14	56	139	448	423	1,213	(D)	...	...	...
	Total payroll.....\$1,000..	6,262	38	177	505	1,507	1,498	2,535	(D)	...	...	...
	Production workers:											
	Number.....	1,992	12	49	120	396	369	1,042	(D)	...	...	...
	Man-hours.....1,000..	4,103	23	86	252	798	743	2,199	(D)	...	...	...
	Wages.....\$1,000..	5,252	22	144	394	1,142	995	2,553	(D)	...	...	...
	Value added by mfg....do....	11,573	104	254	825	2,267	2,011	6,109	(D)	...	...	...
	Cost of materials.....do....	10,897	277	353	666	1,740	1,791	6,069	(D)	...	...	...
	Value of shipments.....do....	22,470	381	608	1,491	4,008	3,802	12,179	(D)	...	...	...
	Capital expenditures..do....	73	...	(1)	(1)	(1)	(1)	(1)	(D)	...	...	...
	Horsepower.....1,000 hp..	1	(2)	(2)	(2)	(2)	(2)	1	(D)	...	...	...
	Electricity used..mil. kwh..	4	1	(3)	(3)	(3)	1	2	(D)	...	...	...

See footnotes at end of table.

Table 1.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR MAJOR INDUSTRY GROUPS AND INDUSTRIES: 1954—Con.

Code	Industry group, industry, and item	Total, all estab- lish- ments	Establishments with an average of—										
			1-4 em- ployees	5-9 em- ployees	10-19 em- ployees	20-49 em- ployees	50-99 em- ployees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over	
2284	Hatters' fur:												
	Number of establishments....	30	8	6	5	7	3	1	...	...	...	...	...
	Total employees.....	762	21	44	67	232	396	(D)	...	...	...	...	...
	Total payroll.....\$1,000..	2,426	44	145	114	812	1,309	(D)	...	...	...	...	...
	Production workers:												
	Number.....	666	18	33	58	206	349	(D)	...	...	...	...	...
	Man-hours.....1,000..	1,250	25	66	87	446	624	(D)	...	...	...	...	...
	Wages.....\$1,000..	1,736	29	97	95	586	927	(D)	...	...	...	...	...
	Value added by mfg....do....	3,902	94	252	308	1,429	1,817	(D)	...	...	...	...	...
	Cost of materials.....do....	6,211	143	285	270	2,294	3,217	(D)	...	...	...	...	...
	Value of shipments.....do....	10,114	237	537	578	3,724	5,036	(D)	...	...	...	...	...
	Capital expenditures..do....	(1)	...	...	(1)	(1)	(1)	(D)	...	...	...	...	...
	Horsepower.....1,000 hp..	3	(2)	(2)	(2)	2	1	(D)	...	...	...	...	...
	Electricity used..mil. kwh..	2	(3)	(3)	(3)	1	1	(D)	...	...	...	...	...
2291	Felt goods, nec:												
	Number of establishments....	72	16	11	12	9	3	12	8	1	...	...	...
	Total employees.....	5,987	40	75	178	290	213	2,076	3,113	(D)	...	...	...
	Total payroll.....\$1,000..	23,376	113	249	638	1,374	707	8,692	11,601	(D)	...	...	...
	Production workers:												
	Number.....	5,182	32	59	142	253	182	1,795	2,717	(D)	...	...	...
	Man-hours.....1,000..	10,767	60	116	281	512	392	3,930	5,474	(D)	...	...	...
	Wages.....\$1,000..	18,083	84	159	452	898	463	6,841	9,183	(D)	...	...	...
	Value added by mfg....do....	41,656	309	433	994	2,309	1,166	15,612	20,830	(D)	...	...	...
	Cost of materials.....do....	51,275	460	499	1,255	3,246	1,165	20,089	24,559	(D)	...	...	...
	Value of shipments.....do....	92,931	769	933	2,249	5,556	2,331	35,702	45,389	(D)	...	...	...
	Capital expenditures..do....	1,623	(1)	(1)	(1)	(1)	(1)	750	693	(D)	...	...	...
	Horsepower.....1,000 hp..	38	(2)	(2)	1	2	3	13	19	(D)	...	...	...
	Electricity used..mil. kwh..	58	(3)	(3)	1	3	2	17	35	(D)	...	...	...
2292	Lace goods:												
	Number of establishments....	138	27	25	24	26	13	17	5	1	...	...	...
	Total employees.....	7,442	74	179	357	915	965	2,629	2,320	(D)	...	...	...
	Total payroll.....\$1,000..	26,117	216	568	1,329	3,418	3,275	9,374	7,934	(D)	...	...	...
	Production workers:												
	Number.....	6,568	68	168	330	830	898	2,388	1,883	(D)	...	...	...
	Man-hours.....1,000..	12,521	125	323	629	1,630	1,664	4,867	3,279	(D)	...	...	...
	Wages.....\$1,000..	20,492	176	496	1,043	2,860	2,650	7,759	5,504	(D)	...	...	...
	Value added by mfg....do....	37,734	444	1,048	1,864	4,696	5,754	12,562	11,363	(D)	...	...	...
	Cost of materials.....do....	22,061	398	699	1,263	3,575	2,649	6,933	6,539	(D)	...	...	...
	Value of shipments.....do....	59,795	843	1,748	3,127	8,272	8,404	19,496	17,902	(D)	...	...	...
	Capital expenditures..do....	1,941	(1)	(1)	(1)	(1)	(1)	(1)	981	(D)	...	...	...
	Horsepower.....1,000 hp..	16	(2)	(2)	(2)	1	1	8	6	(D)	...	...	...
	Electricity used..mil. kwh..	18	(3)	1	1	3	3	6	4	(D)	...	...	...
2293	Padding and upholstery filling:												
	Number of establishments....	200	42	34	42	41	20	13	7	1	...	...	...
	Total employees.....	9,111	115	241	620	1,247	1,377	2,239	3,268	(D)	...	...	...
	Total payroll.....\$1,000..	33,031	328	800	2,418	4,407	5,168	7,533	12,375	(D)	...	...	...
	Production workers:												
	Number.....	7,777	100	201	485	1,038	1,161	1,861	2,928	(D)	...	...	...
	Man-hours.....1,000..	16,031	201	440	1,008	2,082	2,471	3,878	5,949	(D)	...	...	...
	Wages.....\$1,000..	24,489	253	585	1,475	3,058	3,588	5,480	10,047	(D)	...	...	...
	Value added by mfg....do....	61,499	831	1,739	4,725	8,362	8,908	13,873	23,059	(D)	...	...	...
	Cost of materials.....do....	87,329	1,341	2,557	7,332	13,991	15,734	17,229	29,143	(D)	...	...	...
	Value of shipments.....do....	148,828	2,172	4,297	12,057	22,353	24,643	31,102	52,202	(D)	...	...	...
	Capital expenditures..do....	3,485	(1)	(1)	(1)	(1)	501	965	1,052	(D)	...	...	...
	Horsepower.....1,000 hp..	45	2	1	3	7	8	11	13	(D)	...	...	...
	Electricity used..mil. kwh..	77	6	2	6	9	10	17	27	(D)	...	...	...
2294	Processed textile waste:												
	Number of establishments....	203	50	36	40	45	21	10	1	...	...	...	...
	Total employees.....	5,768	138	261	554	1,460	1,488	1,865	(D)	...	...	...	...
	Total payroll.....\$1,000..	17,570	393	760	1,663	4,134	5,003	5,616	(D)	...	...	...	...
	Production workers:												
	Number.....	4,856	107	214	451	1,228	1,273	1,581	(D)	...	...	...	...
	Man-hours.....1,000..	10,142	220	431	927	2,630	2,692	3,239	(D)	...	...	...	...
	Wages.....\$1,000..	12,717	293	564	1,237	3,029	3,695	3,898	(D)	...	...	...	...
	Value added by mfg....do....	30,723	986	1,442	3,014	8,199	7,554	9,527	(D)	...	...	...	...
	Cost of materials.....do....	54,299	1,586	2,082	2,827	14,938	15,279	17,586	(D)	...	...	...	...
	Value of shipments.....do....	85,023	2,572	3,524	5,841	23,138	22,833	27,113	(D)	...	...	...	...
	Capital expenditures..do....	1,513	(1)	(1)	(1)	(1)	(1)	637	(D)	...	...	...	...
	Horsepower.....1,000 hp..	35	(2)	2	6	11	9	7	(D)	...	...	...	...
	Electricity used..mil. kwh..	33	1	2	2	7	10	11	(D)	...	...	...	...

See footnotes at end of table.

SIZE OF ESTABLISHMENTS

203-21

Table 1.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR MAJOR INDUSTRY GROUPS AND INDUSTRIES: 1954—Con.

Code	Industry group, industry, and item	Total, all estab- lish- ments	Establishments with an average of—									
			1-4 em- ployees	5-9 em- ployees	10-19 em- ployees	20-49 em- ployees	50-99 em- ployees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
2295	<u>Coated fabric, except rubberized:</u>											
	Number of establishments....	106	15	16	24	19	11	15	2	3	1	...
	Total employees.....	8,547	34	112	338	673	740	2,447	4,200	(D)	(D)	...
	Total payroll.....\$1,000..	41,699	110	456	1,442	3,034	3,268	11,628	21,758	(D)	(D)	...
	Production workers:											
	Number.....	6,576	24	83	249	521	596	1,863	3,236	(D)	(D)	...
	Man-hours.....1,000..	14,711	49	179	587	1,087	1,280	4,185	7,341	(D)	(D)	...
	Wages.....\$1,000..	27,386	69	294	871	1,730	2,136	7,662	14,621	(D)	(D)	...
	Value added by mfg....do....	80,294	230	812	2,494	5,365	5,489	20,386	45,515	(D)	(D)	...
	Cost of materials.....do....	132,016	388	1,872	4,611	7,235	12,401	38,532	66,973	(D)	(D)	...
	Value of shipments.....do....	212,310	618	2,684	7,106	12,600	17,891	58,919	112,489	(D)	(D)	...
	Capital expenditures..do....	4,117	(1)	(1)	(1)	(1)	(1)	1,091	2,416	(D)	(D)	...
	Horsepower.....1,000 hp..	122	2	(2)	1	4	4	22	89	(D)	(D)	...
	Electricity used..mil. kwh..	73	2	(3)	2	4	6	20	39	(D)	(D)	...
2298	<u>Cordage and twine:</u>											
	Number of establishments....	137	34	7	21	22	19	21	8	5	...	...
	Total employees.....	12,327	76	47	303	755	1,390	3,203	2,395	4,155	...	...
	Total payroll.....\$1,000..	37,374	181	152	829	2,218	4,404	9,048	7,835	12,705	...	...
	Production workers:											
	Number.....	10,709	64	39	261	633	1,202	2,866	2,059	3,583	...	...
	Man-hours.....1,000..	20,568	122	72	479	1,249	2,325	5,637	3,949	6,732	...	...
	Wages.....\$1,000..	28,128	141	126	612	1,539	3,174	7,174	5,763	9,596	...	...
	Value added by mfg....do....	77,298	439	320	1,560	3,856	8,303	18,589	15,815	28,413	...	...
	Cost of materials.....do....	82,649	658	425	2,567	4,416	7,445	21,674	18,015	27,446	...	...
	Value of shipments.....do....	159,948	1,098	746	4,128	8,273	15,748	40,264	33,831	55,859	...	...
	Capital expenditures..do....	2,614	(1)	...	(1)	(1)	(1)	582	(1)	1,065	...	...
	Horsepower.....1,000 hp..	68	(2)	(2)	1	2	9	14	16	26	...	...
	Electricity used..mil. kwh..	108	(3)	(3)	1	3	10	31	18	45	...	...
2299	<u>Textile goods, nec:</u>											
	Number of establishments....	108	31	5	18	13	15	15	9	2	...	...
	Total employees.....	8,975	77	34	259	498	932	2,362	4,811	(D)	...	...
	Total payroll.....\$1,000..	29,106	185	98	1,004	1,498	2,912	7,386	16,020	(D)	...	...
	Production workers:											
	Number.....	7,736	64	28	209	422	810	2,040	4,159	(D)	...	...
	Man-hours.....1,000..	14,888	128	58	385	883	1,600	3,830	8,002	(D)	...	...
	Wages.....\$1,000..	21,116	136	79	587	1,067	2,149	5,161	11,934	(D)	...	...
	Value added by mfg....do....	54,115	516	137	1,976	3,024	5,995	17,081	25,384	(D)	...	...
	Cost of materials.....do....	67,488	1,699	267	3,160	6,503	9,905	17,152	28,799	(D)	...	...
	Value of shipments.....do....	121,603	2,216	405	5,137	9,527	15,900	34,233	54,184	(D)	...	...
	Capital expenditures..do....	2,000	(1)	(1)	(1)	(1)	(1)	888	679	(D)	...	...
	Horsepower.....1,000 hp..	47	(2)	(2)	3	3	3	11	30	(D)	...	...
	Electricity used..mil. kwh..	74	1	1	2	2	6	15	47	(D)	...	...
23	<u>Apparel and related products:</u>											
	Number of establishments....	31,372	8,308	4,535	5,249	7,283	3,408	1,920	502	141	25	1
	Total employees.....	1,190,062	20,618	32,712	76,402	234,522	236,234	288,757	169,354	90,760	40,699	(D)
	Total payroll.....\$1,000..	3,201,795	54,451	100,909	225,195	649,592	649,210	735,778	418,422	243,132	125,102	(D)
	Production workers:											
	Number.....	1,069,867	16,436	26,726	65,822	211,807	213,236	263,991	154,736	80,974	36,135	(D)
	Man-hours.....1,000..	1,898,999	28,048	47,605	112,257	363,656	374,871	474,246	283,363	149,480	65,462	(D)
	Wages.....\$1,000..	2,521,135	37,215	69,968	166,818	515,779	510,156	589,559	338,915	191,330	101,391	(D)
	Value added by mfg....do....	5,147,371	141,958	201,794	414,629	1,005,396	991,603	1,131,750	662,295	409,131	188,811	(D)
	Cost of materials.....do....	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(D)
	Value of shipments.....do....	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(D)
	Capital expenditures..do....	76,552	2,706	2,924	4,374	11,886	11,987	19,495	14,750	5,366	3,060	(D)
	Horsepower.....1,000 hp..	...	...	...	...	...	...	...	...	...	...	...
	Electricity used..mil. kwh..	915	80	14	45	242	174	149	117	68	26	(D)
2311	<u>Men's & boys' suits & coats:</u>											
	Number of establishments....	1,310	296	175	152	206	196	172	69	30	13	1
	Total employees.....	119,001	747	1,227	2,164	6,789	14,177	26,307	23,831	19,769	23,988	(D)
	Total payroll.....\$1,000..	374,795	2,263	4,483	8,485	22,828	43,596	80,196	72,277	62,664	78,001	(D)
	Production workers:											
	Number.....	106,720	549	889	1,655	5,865	12,579	24,208	21,452	18,089	21,431	(D)
	Man-hours.....1,000..	187,579	856	1,502	2,828	9,944	22,033	41,700	37,659	31,987	39,067	(D)
	Wages.....\$1,000..	301,062	1,391	2,635	5,120	15,590	34,488	67,570	60,009	50,978	63,277	(D)
	Value added by mfg....do....	536,880	5,999	9,586	16,808	33,854	61,707	108,071	108,831	86,614	105,407	(D)
	Cost of materials.....do....	603,850	17,559	25,676	53,146	51,899	75,016	82,247	115,968	82,107	100,228	(D)
	Value of shipments.....do....	1,140,731	23,559	35,263	69,955	85,754	136,723	190,318	224,799	168,721	205,636	(D)
	Capital expenditures..do....	3,466	(1)	(1)	(1)	(1)	(1)	786	578	(1)	829	(D)
	Horsepower.....1,000 hp..	...	...	...	...	...	...	...	...	...	...	...
	Electricity used..mil. kwh..	56	(3)	6	1	2	4	8	8	10	17	(D)

See footnotes at end of table.

MANUFACTURES—SUMMARY STATISTICS

Table 1.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR MAJOR INDUSTRY GROUPS AND INDUSTRIES: 1954—Con.

Code	Industry group, industry, and item	Total, all estab- lish- ments	Establishments with an average of—									
			1-4 em- ployees	5-9 em- ployees	10-19 em- ployees	20-49 em- ployees	50-99 em- ployees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
2312	Suit and coat findings:											
	Number of establishments....	116	33	8	23	39	11	2	...	...	...	...
	Total employees.....	2,684	80	58	313	1,307	925	(D)	...	...	...	...
	Total payroll.....\$1,000..	7,685	161	125	862	3,741	2,794	(D)	...	...	...	...
	Production workers:											
	Number.....	2,414	68	50	269	1,185	841	(D)	...	...	...	...
	Man-hours.....1,000..	4,356	107	81	450	2,082	1,635	(D)	...	...	...	...
	Wages.....\$1,000..	6,097	135	100	655	2,984	2,223	(D)	...	...	...	...
	Value added by mfg....do....	11,288	363	195	1,421	5,432	3,875	(D)	...	...	...	...
	Cost of materials.....do....	16,703	981	216	2,668	8,403	4,433	(D)	...	...	...	...
	Value of shipments.....do....	27,991	1,344	411	4,090	13,836	8,309	(D)	...	...	...	...
	Capital expenditures..do....	(1)	(1)	...	(1)	(1)	(1)	(D)	...	...	...	...
	Horsepower ².....1,000 hp..	...	...	...	...	...	...	...	...	...	...	...
	Electricity used..mil. kwh..	1	(3)	(3)	(3)	1	(3)	(D)	...	...	...	...
2321	Men's dress shirts and nightwear:											
	Number of establishments....	971	143	70	82	160	175	227	81	27	6	...
	Total employees.....	108,304	384	488	1,222	5,473	12,753	35,454	26,991	17,567	7,968	...
	Total payroll.....\$1,000..	236,726	1,340	1,768	3,535	12,886	28,380	73,945	56,990	39,445	18,434	...
	Production workers:											
	Number.....	100,262	166	273	906	4,875	11,805	33,649	25,447	16,033	7,106	...
	Man-hours.....1,000..	181,083	306	495	1,462	8,187	20,243	59,888	48,477	29,645	12,380	...
	Wages.....\$1,000..	196,683	391	651	1,752	9,103	22,947	64,253	49,257	33,322	15,007	...
	Value added by mfg....do....	372,941	4,125	3,770	6,002	24,046	42,433	104,936	88,471	69,777	29,377	...
	Cost of materials.....do....	521,036	24,811	20,572	30,401	59,261	60,964	92,031	104,796	93,909	34,288	...
	Value of shipments.....do....	893,980	28,937	24,343	36,404	83,308	103,399	196,968	193,268	163,686	63,665	...
	Capital expenditures..do....	6,370	(1)	(1)	(1)	532	630	2,379	1,073	825	531	...
	Horsepower ².....1,000 hp..	...	...	...	...	...	...	...	...	...	...	...
	Electricity used..mil. kwh..	62	(3)	(3)	(3)	8	4	18	16	10	6	...
2322	Men's and boys' underwear:											
	Number of establishments....	82	10	4	8	14	15	24	5	1	1	...
	Total employees.....	9,385	19	32	127	474	1,077	4,361	3,293	(D)	(D)	...
	Total payroll.....\$1,000..	18,923	60	80	283	1,326	1,879	7,949	7,344	(D)	(D)	...
	Production workers:											
	Number.....	8,827	12	24	110	403	1,026	4,175	3,073	(D)	(D)	...
	Man-hours.....1,000..	15,325	18	41	179	755	1,746	7,479	5,104	(D)	(D)	...
	Wages.....\$1,000..	16,289	19	57	191	748	1,686	7,198	6,386	(D)	(D)	...
	Value added by mfg....do....	29,952	98	158	750	1,330	2,585	11,839	13,190	(D)	(D)	...
	Cost of materials.....do....	44,371	817	474	1,617	2,233	1,287	17,761	20,178	(D)	(D)	...
	Value of shipments.....do....	74,324	915	633	2,369	3,563	3,873	29,600	33,369	(D)	(D)	...
	Capital expenditures..do....	1,168	...	...	...	(1)	(1)	(1)	916	(D)	(D)	...
	Horsepower ².....1,000 hp..	...	...	...	...	...	...	...	...	...	...	...
	Electricity used..mil. kwh..	4	(3)	...	(3)	(3)	1	1	2	(D)	(D)	...
2323	Men's and boys' neckwear:											
	Number of establishments....	403	142	67	77	35	13	1	1	...	...	...
	Total employees.....	9,483	365	483	977	2,347	2,398	2,910	(D)	(D)	...	...
	Total payroll.....\$1,000..	27,797	726	1,216	2,712	6,590	7,990	8,560	(D)	(D)	...	...
	Production workers:											
	Number.....	8,051	303	416	834	2,036	2,021	2,438	(D)	(D)	...	...
	Man-hours.....1,000..	13,789	453	674	1,378	3,454	3,708	4,118	(D)	(D)	...	...
	Wages.....\$1,000..	19,056	521	944	1,874	4,757	5,492	5,465	(D)	(D)	...	...
	Value added by mfg....do....	48,237	1,856	2,083	4,730	11,358	12,860	15,346	(D)	(D)	...	...
	Cost of materials.....do....	51,798	2,881	2,625	5,693	11,939	13,112	15,547	(D)	(D)	...	...
	Value of shipments.....do....	100,036	4,737	4,709	10,424	23,298	25,973	30,893	(D)	(D)	...	...
	Capital expenditures..do....	423	(1)	(1)	(1)	(1)	(1)	(1)	(D)	(D)	...	...
	Horsepower ².....1,000 hp..	...	...	...	...	...	...	...	...	...	...	...
	Electricity used..mil. kwh..	4	(3)	(3)	(3)	1	1	2	(D)	(D)	...	...
2325	Men's and boys' cloth hats:											
	Number of establishments....	415	128	79	97	73	28	9	1	...	...	...
	Total employees.....	8,079	326	547	1,361	2,407	1,938	1,498	(D)	...	...	...
	Total payroll.....\$1,000..	21,457	678	1,378	3,597	6,459	5,515	3,828	(D)	...	...	...
	Production workers:											
	Number.....	7,451	296	507	1,243	2,179	1,804	1,419	(D)	...	...	...
	Man-hours.....1,000..	14,011	544	953	2,309	4,048	3,442	2,713	(D)	...	...	...
	Wages.....\$1,000..	17,977	587	1,215	3,118	5,339	4,394	3,320	(D)	...	...	...
	Value added by mfg....do....	33,030	1,499	2,479	5,381	9,458	8,401	5,810	(D)	...	...	...
	Cost of materials.....do....	25,257	1,716	2,102	4,223	6,602	5,890	4,721	(D)	...	...	...
	Value of shipments.....do....	58,287	3,215	4,582	9,604	16,061	14,292	10,532	(D)	...	...	...
	Capital expenditures..do....	263	(1)	(1)	(1)	(1)	(1)	(1)	(D)	...	...	...
	Horsepower ².....1,000 hp..	...	...	...	...	...	...	...	...	...	...	...
	Electricity used..mil. kwh..	5	(3)	(3)	1	2	1	1	(D)	...	...	...

See footnotes at end of table.

SIZE OF ESTABLISHMENTS

203-23

Table 1.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR MAJOR INDUSTRY GROUPS AND INDUSTRIES: 1954—Con.

Code	Industry group, industry, and item	Total, all estab- lish- ments	Establishments with an average of—									
			1-4 em- ployees	5-9 em- ployees	10-19 employees	20-49 em- ployees	50-99 em- ployees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
2326	Hat and cap materials:											
	Number of establishments....	63	23	16	12	5	7	...	...	...	...	...
	Total employees.....	936	63	117	161	148	445	...	...	...	...	...
	Total payroll.....\$1,000..	2,941	145	384	481	476	1,454	...	...	...	...	...
	Production workers:											
	Number.....	796	51	94	132	127	389	...	...	...	...	...
	Man-hours.....1,000..	1,424	93	184	240	238	667	...	...	...	...	...
	Wages.....\$1,000..	2,145	111	275	348	328	1,081	...	...	...	...	...
	Value added by mfg....do....	4,579	444	675	761	739	1,959	...	...	...	...	...
	Cost of materials.....do....	5,090	511	783	573	1,179	2,043	...	...	...	...	...
	Value of shipments.....do....	9,669	955	1,458	1,335	1,918	4,002	...	...	...	...	...
	Capital expenditures.....do....	(1)	(1)	(1)	(1)	(1)	(1)	...	...	...	...	...
	Horsepower ⁵.....1,000 hp..	...	...	...	...	...	...	...	...	...	...	...
	Electricity used..mil. kwh..	(3)	(3)	(3)	(3)	(3)	(3)	...	...	...	...	...
2327	Separate trousers:											
	Number of establishments....	798	204	100	84	126	129	101	46	8	...	...
	Total employees.....	51,652	533	730	1,248	4,172	9,252	15,647	15,105	4,963	...	...
	Total payroll.....\$1,000..	118,688	1,322	2,293	3,341	10,386	21,527	34,077	34,200	11,541	...	...
	Production workers:											
	Number.....	48,315	367	539	1,048	3,814	8,720	14,842	14,257	4,725	...	...
	Man-hours.....1,000..	86,421	543	879	1,649	6,262	15,259	26,394	26,605	8,827	...	...
	Wages.....\$1,000..	99,562	772	1,326	2,449	8,533	18,361	29,519	28,982	9,580	...	...
	Value added by mfg....do....	181,309	4,406	4,881	7,297	15,450	31,702	49,987	49,684	17,898	...	...
	Cost of materials.....do....	216,376	14,605	18,338	20,163	24,913	26,822	35,499	53,549	22,483	...	...
	Value of shipments.....do....	397,685	19,011	23,219	27,460	40,364	58,525	85,487	103,234	40,382	...	...
	Capital expenditures.....do....	2,776	(1)	(1)	(1)	(1)	(1)	950	921	(1)	...	...
	Horsepower ⁵.....1,000 hp..	...	...	...	...	...	...	...	...	...	...	...
	Electricity used..mil. kwh..	27	(3)	(3)	(3)	1	3	8	11	4	...	...
2328	Work shirts:											
	Number of establishments....	52	3	...	5	4	17	15	7	1	...	...
	Total employees.....	6,992	87	...	(D)	130	1,165	2,676	2,931	(D)	...	...
	Total payroll.....\$1,000..	11,468	162	...	(D)	244	1,982	4,543	4,534	(D)	...	...
	Production workers:											
	Number.....	6,789	75	...	(D)	120	1,116	2,609	2,867	(D)	...	...
	Man-hours.....1,000..	11,425	121	...	(D)	204	2,001	4,568	4,528	(D)	...	...
	Wages.....\$1,000..	10,632	138	...	(D)	201	1,880	4,258	4,152	(D)	...	...
	Value added by mfg....do....	16,652	681	...	(D)	309	2,516	5,758	7,386	(D)	...	...
	Cost of materials.....do....	21,648	2,575	...	(D)	303	3,417	6,614	8,736	(D)	...	...
	Value of shipments.....do....	38,300	3,239	...	(D)	613	5,933	12,372	16,122	(D)	...	...
	Capital expenditures.....do....	(1)	(1)	...	(D)	(1)	(1)	(1)	(1)	(D)	...	...
	Horsepower ⁵.....1,000 hp..	...	...	...	...	...	...	...	...	...	...	...
	Electricity used..mil. kwh..	5	...	...	(D)	(3)	1	2	2	(D)	...	...
2329	Men's and boys' clothing, nec:											
	Number of establishments....	1,117	172	101	123	249	192	193	65	22	...	...
	Total employees.....	90,759	438	727	1,870	8,159	13,806	30,332	21,413	14,011	...	...
	Total payroll.....\$1,000..	200,730	1,106	1,810	4,521	19,536	32,237	67,124	43,404	30,990	...	...
	Production workers:											
	Number.....	82,510	341	593	1,657	7,431	12,534	27,698	19,920	12,334	...	...
	Man-hours.....1,000..	146,446	591	951	2,785	12,966	22,266	49,209	34,745	22,929	...	...
	Wages.....\$1,000..	160,573	721	1,250	3,458	15,728	25,262	53,706	36,530	23,915	...	...
	Value added by mfg....do....	321,655	3,394	4,525	20,602	29,242	49,852	98,775	66,485	48,777	...	...
	Cost of materials.....do....	471,231	11,062	14,085	13,927	35,650	66,182	127,351	106,866	96,104	...	...
	Value of shipments.....do....	792,886	14,457	18,611	34,529	64,893	116,034	226,127	173,352	144,882	...	...
	Capital expenditures.....do....	5,473	(1)	(1)	(1)	(1)	965	1,780	878	1,051	...	...
	Horsepower ⁵.....1,000 hp..	...	...	...	...	...	...	...	...	...	...	...
	Electricity used..mil. kwh..	50	(3)	(3)	(3)	7	6	12	13	12	...	...
2331	Blouses:											
	Number of establishments....	1,245	143	145	257	440	188	66	6	...	...	...
	Total employees.....	42,980	381	1,078	3,816	14,294	12,485	8,938	1,986	...	...	...
	Total payroll.....\$1,000..	99,818	1,192	3,563	9,448	31,732	29,538	19,587	4,757	...	...	...
	Production workers:											
	Number.....	39,567	260	823	3,372	13,330	11,438	8,498	1,843	...	...	...
	Man-hours.....1,000..	67,901	457	1,423	5,245	22,160	19,765	15,290	3,558	...	...	...
	Wages.....\$1,000..	82,201	624	2,051	7,052	26,480	24,317	17,454	4,221	...	...	...
	Value added by mfg....do....	165,352	3,679	8,141	17,813	50,965	49,115	27,354	8,283	...	...	...
	Cost of materials.....do....	209,910	13,021	21,159	36,149	52,185	55,497	16,922	14,974	...	...	...
	Value of shipments.....do....	375,262	16,701	29,301	53,963	103,151	104,612	44,276	23,257	...	...	...
	Capital expenditures.....do....	2,445	(1)	(1)	(1)	650	562	677	(1)	...	...	...
	Horsepower ⁵.....1,000 hp..	...	...	...	...	...	...	...	...	...	...	...
	Electricity used..mil. kwh..	22	(3)	1	1	2	14	3	1	...	...	...

See footnotes at end of table.

MANUFACTURES—SUMMARY STATISTICS

Table 1.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR MAJOR INDUSTRY GROUPS AND INDUSTRIES: 1954—Con.

Code	Industry group, industry, and item	Total, all estab- lish- ments	Establishments with an average of—									
			1-4 em- ployees	5-9 em- ployees	10-19 em- ployees	20-49 em- ployees	50-99 em- ployees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
2333	Dresses, unit price:											
	Number of establishments....	4,114	393	414	805	1,703	615	162	19	3	...	...
	Total employees.....	143,278	985	3,110	12,112	55,485	41,107	22,610	7,867	(D)	...	...
	Total payroll.....\$1,000..	418,577	3,084	10,007	37,693	158,106	121,591	63,911	24,183	(D)	...	...
	Production workers:											
	Number.....	129,527	727	2,516	10,529	51,216	37,469	20,233	6,834	(D)	...	...
	Man-hours.....1,000..	219,314	1,244	4,222	17,472	84,910	63,060	35,332	13,072	(D)	...	...
	Wages.....\$1,000..	334,819	1,868	6,786	28,552	132,494	98,405	49,175	17,536	(D)	...	...
	Value added by mfg....do....	661,292	8,554	21,217	66,837	230,892	184,017	110,105	39,668	(D)	...	...
	Cost of materials.....do....	793,788	19,900	40,884	129,863	232,195	194,581	127,674	48,688	(D)	...	...
	Value of shipments.....do....	1,455,080	28,454	62,101	196,701	463,088	378,598	237,780	88,357	(D)	...	...
	Capital expenditures....do....	5,069	(1)	(1)	(1)	1,491	1,054	1,416	(1)	(D)	...	...
	Horsepower ⁵.....1,000 hp..	...	...	...	...	...	...	...	...	...	...	...
	Electricity used..mil. kwh..	102	2	(3)	4	53	18	18	7	(D)	...	...
2334	Dresses, dozen price:											
	Number of establishments....	892	135	106	118	226	157	113	28	9	...	...
	Total employees.....	54,507	307	764	1,724	7,451	11,225	17,122	10,204	5,708	...	...
	Total payroll.....\$1,000..	127,276	594	1,847	4,086	16,759	25,460	41,064	23,197	14,267	...	...
	Production workers:											
	Number.....	49,442	264	631	1,529	6,828	10,334	15,630	9,377	4,845	...	...
	Man-hours.....1,000..	90,092	412	1,072	2,589	11,883	18,222	29,062	17,726	9,123	...	...
	Wages.....\$1,000..	100,137	428	1,231	2,980	13,540	20,431	32,046	18,671	10,806	...	...
	Value added by mfg....do....	205,070	1,518	3,985	8,380	26,774	38,073	67,473	33,387	25,477	...	...
	Cost of materials.....do....	230,146	3,072	8,321	17,088	29,526	38,371	74,565	33,734	25,467	...	...
	Value of shipments.....do....	435,216	4,591	12,306	25,468	56,301	76,444	142,038	67,122	50,944	...	...
	Capital expenditures....do....	2,366	(1)	(1)	(1)	(1)	660	694	(1)	(1)	...	...
	Horsepower ⁵.....1,000 hp..	...	...	...	...	...	...	...	...	...	...	...
	Electricity used..mil. kwh..	48	9	(3)	1	22	3	6	4	3	...	...
2337	Women's suits, coats, and skirts:											
	Number of establishments....	3,204	539	470	719	968	363	122	21	2	...	...
	Total employees.....	96,022	1,449	3,412	10,536	30,752	24,590	16,784	8,496	(D)	...	...
	Total payroll.....\$1,000..	326,933	4,726	12,120	35,759	103,178	87,838	56,536	26,774	(D)	...	...
	Production workers:											
	Number.....	84,410	1,022	2,532	9,039	27,527	21,700	14,918	7,669	(D)	...	...
	Man-hours.....1,000..	147,479	1,754	4,162	15,093	47,602	38,371	26,786	13,708	(D)	...	...
	Wages.....\$1,000..	252,312	2,824	7,354	26,653	83,156	67,894	43,858	20,570	(D)	...	...
	Value added by mfg....do....	529,623	12,501	26,488	62,180	159,941	137,300	90,144	41,063	(D)	...	...
	Cost of materials.....do....	731,697	36,143	64,266	115,759	208,076	171,573	100,143	35,735	(D)	...	...
	Value of shipments.....do....	1,261,320	48,645	90,755	177,939	368,017	308,875	190,288	76,799	(D)	...	...
	Capital expenditures....do....	3,621	(1)	(1)	(1)	1,098	933	681	312	(D)	...	...
	Horsepower ⁵.....1,000 hp..	...	...	...	...	...	...	...	...	...	...	...
	Electricity used..mil. kwh..	71	(3)	1	9	41	7	8	5	(D)	...	...
2338	Women's neckwear and scarfs:											
	Number of establishments....	133	51	28	30	18	5	1	...	...	...	...
	Total employees.....	1,745	112	204	419	530	478	(D)	...	...	...	...
	Total payroll.....\$1,000..	6,189	256	477	1,073	1,613	2,769	(D)	...	...	...	...
	Production workers:											
	Number.....	1,457	89	189	361	464	352	(D)	...	...	...	...
	Man-hours.....1,000..	2,434	146	333	612	857	484	(D)	...	...	...	...
	Wages.....\$1,000..	3,561	142	398	742	1,041	1,235	(D)	...	...	...	...
	Value added by mfg....do....	9,676	776	885	1,863	2,572	3,578	(D)	...	...	...	...
	Cost of materials.....do....	16,620	1,291	1,408	2,390	3,355	8,174	(D)	...	...	...	...
	Value of shipments.....do....	26,297	2,068	2,294	4,253	5,927	11,754	(D)	...	...	...	...
	Capital expenditures....do....	(1)	(1)	(1)	(1)	(1)	(1)	(D)	...	...	...	...
	Horsepower ⁵.....1,000 hp..	...	...	...	...	...	...	...	...	...	...	...
	Electricity used..mil. kwh..	(3)	(3)	(3)	(3)	(3)	(3)	(D)	...	...	...	...
2339	Women's outerwear, nec:											
	Number of establishments....	710	124	107	127	222	89	28	11	2	...	...
	Total employees.....	25,361	283	772	1,851	7,173	6,003	3,955	5,322	(D)	...	...
	Total payroll.....\$1,000..	67,324	915	2,259	4,663	16,715	15,633	9,989	17,148	(D)	...	...
	Production workers:											
	Number.....	22,637	191	582	1,586	6,601	5,528	3,708	4,439	(D)	...	...
	Man-hours.....1,000..	42,147	342	2,379	2,517	11,172	10,009	6,817	8,908	(D)	...	...
	Wages.....\$1,000..	51,503	450	1,314	3,346	13,710	12,694	8,549	11,437	(D)	...	...
	Value added by mfg....do....	115,046	2,898	5,627	8,435	27,131	23,776	13,935	33,242	(D)	...	...
	Cost of materials.....do....	137,028	7,721	13,790	15,397	26,707	25,124	12,387	35,899	(D)	...	...
	Value of shipments.....do....	252,074	10,620	19,418	23,832	53,838	48,901	26,322	69,141	(D)	...	...
	Capital expenditures....do....	1,905	(1)	(1)	(1)	(1)	541	(1)	(1)	(D)	...	...
	Horsepower ⁵.....1,000 hp..	...	...	...	...	...	...	...	...	...	...	...
	Electricity used..mil. kwh..	16	1	(3)	(3)	2	2	1	10	(D)	...	...

See footnotes at end of table.

SIZE OF ESTABLISHMENTS

203-25

Table 1.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR MAJOR INDUSTRY GROUPS AND INDUSTRIES: 1954—Con.

Code	Industry group, industry, and item	Total, all estab- lish- ments	Establishments with an average of—									1,000- 2,499 employees	2,500 employees and over
			1-4 em- ployees	5-9 em- ployees	10-19 em- ployees	20-49 em- ployees	50-99 em- ployees	100-249 employees	250-499 employees	500-999 employees			
2341	Women's and children's underwear:												
	Number of establishments....	1,352	193	162	230	372	215	134	36	8	2	...	...
	Total employees.....	73,427	500	1,215	3,444	12,297	15,222	20,548	12,797	7,401	(D)	...	...
	Total payroll.....\$1,000..	176,305	1,337	3,656	9,775	29,951	35,779	46,958	30,401	18,447	(D)	...	...
	Production workers:												
	Number.....	66,885	366	911	2,797	11,178	13,996	19,091	11,780	6,765	(D)	...	...
	Man-hours.....1,000..	118,702	568	1,473	4,709	19,190	24,610	34,547	21,302	12,302	(D)	...	...
	Wages.....\$1,000..	140,063	730	2,035	5,839	23,163	29,146	39,052	24,883	15,213	(D)	...	...
	Value added by mfg....do....	298,385	4,831	8,854	21,157	48,889	57,058	76,370	52,749	28,474	(D)	...	...
	Cost of materials.....do....	471,641	14,438	27,371	60,090	89,239	78,714	89,088	76,778	35,920	(D)	...	...
	Value of shipments.....do....	770,026	19,269	36,226	81,247	138,129	135,772	165,458	129,527	64,395	(D)	...	...
	Capital expenditures..do....	5,431	(1)	(1)	(1)	1,235	1,204	1,354	665	(1)	(D)	...	...
	Horsepower ⁵.....1,000 hp..	...	...	...	...	...	...	...	...	...	...	...	...
	Electricity used..mil. kwh..	43	5	(3)	6	2	5	8	10	7	(D)	...	...
2342	Corsets and allied garments:												
	Number of establishments....	491	76	36	59	120	75	92	24	8	1	...	...
	Total employees.....	38,807	1,338	(D)	(D)	3,877	5,507	13,902	7,540	6,641	(D)	...	...
	Total payroll.....\$1,000..	108,509	3,330	(D)	(D)	10,311	14,512	37,214	20,904	22,273	(D)	...	...
	Production workers:												
	Number.....	33,724	1,183	(D)	(D)	3,333	4,922	12,373	6,609	5,300	(D)	...	...
	Man-hours.....1,000..	60,333	1,968	(D)	(D)	5,768	9,038	21,804	11,787	9,964	(D)	...	...
	Wages.....\$1,000..	78,977	2,543	(D)	(D)	7,341	10,841	27,245	15,755	15,278	(D)	...	...
	Value added by mfg....do....	214,870	5,897	(D)	(D)	17,064	24,409	63,306	40,813	63,379	(D)	...	...
	Cost of materials.....do....	179,937	6,257	(D)	(D)	17,018	21,634	53,627	26,255	55,144	(D)	...	...
	Value of shipments.....do....	394,808	12,155	(D)	(D)	34,083	46,044	116,934	67,068	118,523	(D)	...	...
	Capital expenditures..do....	3,001	(1)	(D)	(D)	(1)	(1)	1,167	577	600	(D)	...	...
	Horsepower ⁵.....1,000 hp..	...	...	...	...	...	...	...	...	...	...	...	...
	Electricity used..mil. kwh..	33	7	(D)	(D)	7	2	6	6	2	(D)	...	...
2351	Millinery:												
	Number of establishments....	871	227	158	196	196	70	19	4	1	...	...	...
	Total employees.....	20,235	576	1,143	2,829	6,191	4,801	2,732	1,960	(D)	...	...	...
	Total payroll.....\$1,000..	65,809	1,578	3,451	8,644	20,780	17,441	8,583	5,331	(D)	...	...	...
	Production workers:												
	Number.....	18,222	517	1,051	2,583	5,540	4,185	2,483	1,860	(D)	...	...	...
	Man-hours.....1,000..	33,577	938	1,853	4,719	9,983	7,721	4,697	3,663	(D)	...	...	...
	Wages.....\$1,000..	53,667	1,301	2,981	7,342	16,506	13,403	7,249	4,883	(D)	...	...	...
	Value added by mfg....do....	101,180	3,670	6,531	13,628	32,058	25,452	13,189	6,650	(D)	...	...	...
	Cost of materials.....do....	71,945	3,375	4,798	10,039	22,817	18,212	8,786	3,914	(D)	...	...	...
	Value of shipments.....do....	173,125	7,046	11,330	23,668	54,876	43,664	21,976	10,564	(D)	...	...	...
	Capital expenditures..do....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(D)	...	...	...
	Horsepower ⁵.....1,000 hp..	...	...	...	...	...	...	...	...	...	...	...	...
	Electricity used..mil. kwh..	28	1	2	4	8	7	4	2	(D)	...	...	...
2361	Children's dresses:												
	Number of establishments....	764	116	70	136	253	121	56	9	3	...	...	...
	Total employees.....	32,525	289	517	2,008	8,000	8,773	8,217	4,718	(D)	...	...	...
	Total payroll.....\$1,000..	78,244	660	1,412	4,581	18,657	22,104	18,965	11,863	(D)	...	...	...
	Production workers:												
	Number.....	29,410	228	436	1,763	7,338	7,842	7,554	4,246	(D)	...	...	...
	Man-hours.....1,000..	52,459	359	733	2,995	12,431	14,231	13,689	8,019	(D)	...	...	...
	Wages.....\$1,000..	61,892	427	1,005	3,636	14,872	16,961	15,036	9,952	(D)	...	...	...
	Value added by mfg....do....	127,587	3,482	3,441	8,636	30,644	33,734	28,156	19,490	(D)	...	...	...
	Cost of materials.....do....	163,912	9,114	5,367	13,345	43,648	40,324	28,197	23,914	(D)	...	...	...
	Value of shipments.....do....	291,499	12,596	8,808	21,982	74,293	74,059	56,354	43,404	(D)	...	...	...
	Capital expenditures..do....	1,451	(1)	(1)	(1)	(1)	518	(1)	(1)	(D)	...	...	...
	Horsepower ⁵.....1,000 hp..	...	...	...	...	...	...	...	...	...	...	...	...
	Electricity used..mil. kwh..	22	(3)	(3)	(3)	6	6	6	4	(D)	...	...	...
2363	Children's coats:												
	Number of establishments....	407	49	51	93	127	57	28	2	...	...	...	...
	Total employees.....	14,399	121	366	1,347	4,181	3,956	4,426	(D)	...	...	...	...
	Total payroll.....\$1,000..	44,980	360	1,417	4,265	13,289	12,400	13,247	(D)	...	...	...	...
	Production workers:												
	Number.....	12,849	91	257	1,179	3,838	3,534	3,948	(D)	...	...	...	...
	Man-hours.....1,000..	22,692	147	489	2,043	6,579	6,176	7,256	(D)	...	...	...	...
	Wages.....\$1,000..	35,598	221	833	3,394	11,181	9,652	10,315	(D)	...	...	...	...
	Value added by mfg....do....	72,601	1,306	3,274	8,511	18,918	20,104	20,485	(D)	...	...	...	...
	Cost of materials.....do....	99,509	3,823	9,046	16,354	18,753	23,178	28,353	(D)	...	...	...	...
	Value of shipments.....do....	172,110	5,130	12,320	24,866	37,671	43,283	48,839	(D)	...	...	...	...
	Capital expenditures..do....	574	(1)	(1)	(1)	(1)	(1)	(1)	(D)	...	...	...	...
	Horsepower ⁵.....1,000 hp..	...	...	...	...	...	...	...	...	...	...	...	...
	Electricity used..mil. kwh..	9	(3)	(3)	(3)	6	1	2	(D)	...	...	...	...

See footnotes at end of table.

Table 1.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR MAJOR INDUSTRY GROUPS AND INDUSTRIES: 1954—Con.

Code	Industry group, industry, and item	Total, all estab- lish- ments	Establishments with an average of—									
			1-4 em- ployees	5-9 em- ployees	10-19 em- ployees	20-49 em- ployees	50-99 em- ployees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
2369	Children's outerwear, nec:											
	Number of establishments....	812	145	123	150	220	106	55	11	2	...	...
	Total employees.....	30,613	353	894	2,184	6,973	7,381	7,720	5,106	(D)	...	...
	Total payroll.....\$1,000..	73,079	824	2,352	5,092	16,245	17,930	19,283	11,351	(D)	...	...
	Production workers:											
	Number.....	27,826	255	748	1,906	6,367	6,701	7,110	4,737	(D)	...	...
	Man-hours.....1,000..	49,851	406	1,220	3,200	11,000	11,834	13,420	8,768	(D)	...	...
	Wages.....\$1,000..	58,313	480	1,605	3,879	12,988	14,129	15,844	9,385	(D)	...	...
	Value added by mfg....do....	121,863	2,604	4,744	10,448	26,440	26,458	31,870	19,297	(D)	...	...
	Cost of materials.....do....	156,384	5,964	10,710	14,930	29,135	32,850	37,009	25,784	(D)	...	...
	Value of shipments.....do....	278,248	8,569	15,454	25,379	55,576	59,308	68,879	45,081	(D)	...	...
	Capital expenditures.....do....	1,818	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(D)	...	...
	Horsepower ⁵.....1,000 hp..	...	...	...	...	...	...	...	...	...	...	...
	Electricity used..mil. kwh..	86	9	(3)	8	1	60	3	2	(D)	...	...
2371	Fur goods:											
	Number of establishments....	1,972	1,401	353	155	54	8	1	...	...	...	...
	Total employees.....	9,983	3,189	2,443	2,068	1,617	664	(D)	...	...	...	...
	Total payroll.....\$1,000..	42,833	10,032	10,591	10,267	8,583	3,358	(D)	...	...	...	...
	Production workers:											
	Number.....	7,994	2,466	1,969	1,689	1,334	534	(D)	...	...	...	...
	Man-hours.....1,000..	13,935	4,141	3,394	3,122	2,390	886	(D)	...	...	...	...
	Wages.....\$1,000..	33,915	7,664	8,560	8,046	7,022	2,622	(D)	...	...	...	...
	Value added by mfg....do....	74,755	24,403	17,448	16,627	11,947	4,328	(D)	...	...	...	...
	Cost of materials.....do....	152,770	47,531	37,813	34,389	24,572	8,463	(D)	...	...	...	...
	Value of shipments.....do....	227,525	71,935	55,261	51,017	36,520	12,792	(D)	...	...	...	...
	Capital expenditures.....do....	(1)	(1)	(1)	(1)	(1)	(1)	(D)	...	...	...	...
	Horsepower ⁵.....1,000 hp..	...	...	...	...	...	...	...	...	...	...	...
	Electricity used..mil. kwh..	31	1	2	2	25	1	(D)	...	...	...	...
2381	Fabric dress gloves:											
	Number of establishments....	110	25	16	19	21	18	8	3	...	...	...
	Total employees.....	4,537	63	123	299	631	1,251	1,211	956	...	...	...
	Total payroll.....\$1,000..	10,374	122	268	638	1,503	2,717	2,717	2,407	...	...	...
	Production workers:											
	Number.....	4,127	51	106	276	575	1,126	1,117	874	...	...	...
	Man-hours.....1,000..	7,131	89	179	472	929	1,949	1,960	1,550	...	...	...
	Wages.....\$1,000..	8,266	81	177	532	1,121	2,212	2,232	1,909	...	...	...
	Value added by mfg....do....	17,271	343	465	1,131	2,329	4,153	4,654	4,194	...	...	...
	Cost of materials.....do....	21,820	739	1,082	1,005	2,010	4,568	5,635	6,778	...	...	...
	Value of shipments.....do....	39,091	1,082	1,548	2,137	4,340	8,722	10,290	10,972	...	...	...
	Capital expenditures.....do....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	...	...	...
	Horsepower ⁵.....1,000 hp..	...	...	...	...	...	...	...	...	...	...	...
	Electricity used..mil. kwh..	4	(3)	(3)	(3)	1	1	1	1	...	...	...
2382	Fabric work gloves:											
	Number of establishments....	130	14	7	13	35	33	21	6	1	...	...
	Total employees.....	10,084	41	46	194	1,244	2,236	3,420	2,900	(D)	...	...
	Total payroll.....\$1,000..	19,335	81	97	393	2,541	4,405	6,598	5,218	(D)	...	...
	Production workers:											
	Number.....	9,484	35	37	172	1,124	2,085	3,240	3,787	(D)	...	...
	Man-hours.....1,000..	16,536	57	67	258	1,888	3,457	5,732	5,074	(D)	...	...
	Wages.....\$1,000..	16,631	61	76	300	1,921	3,659	5,817	4,794	(D)	...	...
	Value added by mfg....do....	29,561	285	253	561	3,643	6,275	10,703	7,838	(D)	...	...
	Cost of materials.....do....	36,215	282	215	814	4,119	7,841	12,099	10,343	(D)	...	...
	Value of shipments.....do....	65,776	568	469	1,376	7,762	14,116	22,803	16,681	(D)	...	...
	Capital expenditures.....do....	1,103	(1)	(1)	(1)	(1)	(1)	(1)	816	(D)	...	...
	Horsepower ⁵.....1,000 hp..	...	...	...	...	...	...	...	...	...	...	...
	Electricity used..mil. kwh..	8	(3)	(3)	(3)	1	2	3	...	(D)	...	...
2383	Suspenders and garters:											
	Number of establishments....	47	17	11	10	6	1	2	...	...	...	...
	Total employees.....	934	36	74	155	218	450	(D)	...	...	...	...
	Total payroll.....\$1,000..	2,435	67	146	385	517	2,119	(D)	...	...	...	...
	Production workers:											
	Number.....	806	33	65	132	180	396	(D)	...	...	...	...
	Man-hours.....1,000..	1,400	50	94	235	308	712	(D)	...	...	...	...
	Wages.....\$1,000..	1,768	60	120	264	350	973	(D)	...	...	...	...
	Value added by mfg....do....	4,194	160	235	801	744	2,253	(D)	...	...	...	...
	Cost of materials.....do....	5,922	229	302	1,218	1,654	4,293	(D)	...	...	...	...
	Value of shipments.....do....	10,116	390	537	2,020	2,398	4,771	(D)	...	...	...	...
	Capital expenditures.....do....	(1)	...	(1)	(1)	(1)	(1)	(D)	...	...	...	...
	Horsepower ⁵.....1,000 hp..	...	...	...	...	...	...	...	...	...	...	...
	Electricity used..mil. kwh..	(3)	(3)	(3)	(3)	(3)	(3)	(D)	...	...	...	...

See footnotes at end of table.

SIZE OF ESTABLISHMENTS

203-27

Table 1.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR MAJOR INDUSTRY GROUPS AND INDUSTRIES: 1954—Con.

Code	Industry group, industry, and item	Total, all estab- lish- ments	Establishments with an average of—									
			1-4 em- ployees	5-9 em- ployees	10-19 em- ployees	20-49 em- ployees	50-99 em- ployees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
2384	<u>Robes and dressing gowns:</u>											
	Number of establishments....	328	58	46	67	101	32	22	2	...	...	...
	Total employees.....	10,957	162	327	954	3,216	2,172	4,124	(D)	...	...	...
	Total payroll.....\$1,000..	27,039	537	930	2,524	7,107	5,273	10,667	(D)	...	...	...
	Production workers:											
	Number.....	10,043	122	258	838	2,986	2,009	3,828	(D)	...	...	...
	Man-hours.....1,000..	16,891	189	387	1,307	4,678	3,417	6,911	(D)	...	...	...
	Wages.....\$1,000..	21,093	267	577	1,850	5,924	4,193	8,280	(D)	...	...	...
	Value added by mfg....do....	44,027	1,393	1,935	4,729	10,199	7,501	18,267	(D)	...	...	...
	Cost of materials.....do....	63,936	3,060	5,389	9,183	12,879	9,798	23,624	(D)	...	...	...
	Value of shipments.....do....	107,964	4,454	7,325	13,913	23,078	17,300	41,893	(D)	...	...	...
	Capital expenditures.....do....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(D)	...	...	...
	Horsepower ⁵.....1,000 hp..	...	...	...	...	...	...	...	...	...	...	...
	Electricity used..mil. kwh..	9	(3)	(3)	(3)	1	7	1	(D)	...	...	...
2385	<u>Waterproof outer garments:</u>											
	Number of establishments....	294	70	33	37	94	33	18	7	2	...	...
	Total employees.....	12,872	201	230	548	3,006	2,279	2,679	3,927	(D)	...	...
	Total payroll.....\$1,000..	34,702	456	634	1,650	8,032	6,225	6,897	10,806	(D)	...	...
	Production workers:											
	Number.....	11,360	162	178	445	2,765	2,085	2,468	3,254	(D)	...	...
	Man-hours.....1,000..	20,167	268	298	746	4,831	3,647	4,475	5,899	(D)	...	...
	Wages.....\$1,000..	27,117	321	389	1,108	6,798	5,103	5,650	7,744	(D)	...	...
	Value added by mfg....do....	59,342	1,028	1,440	3,881	13,076	8,934	13,973	17,008	(D)	...	...
	Cost of materials.....do....	60,317	2,226	4,360	6,208	14,607	7,236	11,271	14,406	(D)	...	...
	Value of shipments.....do....	119,660	3,254	5,801	10,090	27,683	16,171	25,245	31,415	(D)	...	...
	Capital expenditures.....do....	844	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(D)	...	...
	Horsepower ⁵.....1,000 hp..	...	...	...	...	...	...	...	...	...	...	...
	Electricity used..mil. kwh..	8	(3)	(3)	(3)	1	1	2	4	(D)	...	...
2386	<u>Leather and sheep-lined clothing:</u>											
	Number of establishments....	153	38	15	26	41	22	10	1	...	...	...
	Total employees.....	5,361	101	115	366	1,369	1,563	1,845	(D)	...	...	...
	Total payroll.....\$1,000..	15,730	212	303	949	3,747	4,374	6,144	(D)	...	...	...
	Production workers:											
	Number.....	4,660	89	100	319	1,214	1,380	1,557	(D)	...	...	...
	Man-hours.....1,000..	8,106	132	183	525	2,143	2,357	2,762	(D)	...	...	...
	Wages.....\$1,000..	11,862	175	215	755	3,068	3,454	4,192	(D)	...	...	...
	Value added by mfg....do....	24,248	710	558	1,454	6,230	7,005	8,288	(D)	...	...	...
	Cost of materials.....do....	32,134	1,969	1,268	1,919	6,682	8,143	12,152	(D)	...	...	...
	Value of shipments.....do....	56,383	2,680	1,827	3,373	12,912	15,148	20,440	(D)	...	...	...
	Capital expenditures.....do....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(D)	...	...	...
	Horsepower ⁵.....1,000 hp..	...	...	...	...	...	...	...	...	...	...	...
	Electricity used..mil. kwh..	2	(3)	(3)	1	1	(3)	(3)	(D)	...	...	...
2387	<u>Belts:</u>											
	Number of establishments....	503	115	98	122	108	43	14	2	1	...	...
	Total employees.....	12,571	309	703	1,740	3,374	2,850	2,122	1,469	(D)	...	...
	Total payroll.....\$1,000..	35,403	715	1,778	4,498	9,520	7,987	5,431	5,473	(D)	...	...
	Production workers:											
	Number.....	10,789	274	613	1,539	2,926	2,549	1,917	968	(D)	...	...
	Man-hours.....1,000..	19,639	447	1,055	2,681	5,254	4,856	3,378	1,965	(D)	...	...
	Wages.....\$1,000..	25,176	575	1,425	3,614	6,922	6,163	3,948	2,527	(D)	...	...
	Value added by mfg....do....	58,010	1,886	3,417	8,005	15,563	12,779	8,148	8,209	(D)	...	...
	Cost of materials.....do....	48,298	1,932	3,107	5,570	12,741	11,396	7,292	6,256	(D)	...	...
	Value of shipments.....do....	106,311	3,819	6,525	13,576	28,307	24,176	15,441	14,466	(D)	...	...
	Capital expenditures.....do....	658	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(D)	...	...
	Horsepower ⁵.....1,000 hp..	...	...	...	...	...	...	...	...	...	...	...
	Electricity used..mil. kwh..	8	2	(3)	2	(3)	(3)	2	2	(D)	...	...
2388	<u>Handkerchiefs:</u>											
	Number of establishments....	100	22	14	20	17	19	8	...	...	...	...
	Total employees.....	3,513	48	103	286	562	1,225	1,287	...	...	...	...
	Total payroll.....\$1,000..	7,792	124	363	667	1,190	2,604	2,843	...	...	...	...
	Production workers:											
	Number.....	3,178	39	54	235	520	1,100	1,227	...	...	...	...
	Man-hours.....1,000..	5,179	62	123	412	886	1,729	1,965	...	...	...	...
	Wages.....\$1,000..	5,797	66	143	438	945	1,820	2,383	...	...	...	...
	Value added by mfg....do....	14,366	269	843	1,632	1,857	3,965	5,798	...	...	...	...
	Cost of materials.....do....	25,894	736	2,845	4,012	3,178	6,510	8,611	...	...	...	...
	Value of shipments.....do....	40,261	1,006	3,689	5,644	5,035	10,476	14,410	...	...	...	...
	Capital expenditures.....do....	(1)	...	...	(1)	(1)	(1)	(1)	...	...	...	...
	Horsepower ⁵.....1,000 hp..	...	...	...	...	...	...	...	...	...	...	...
	Electricity used..mil. kwh..	1	(3)	(3)	(3)	(3)	1	(3)	...	...	...	...

See footnotes at end of table.

MANUFACTURES—SUMMARY STATISTICS

Table 1.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR MAJOR INDUSTRY GROUPS AND INDUSTRIES: 1954—Con.

Code	Industry group, industry, and item	Total, all estab- lish- ments	Establishments with an average of—									
			1-4 em- ployees	5-9 em- ployees	10-19 em- ployees	20-49 em- ployees	50-99 em- ployees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
2389	Apparel, nec:											
	Number of establishments....	139	51	28	18	24	9	8	1	...	...	...
	Total employees.....	3,501	117	208	262	786	639	1,487	(D)	...	...	...
	Total payroll.....\$1,000..	10,569	268	538	632	2,216	2,122	4,792	(D)	...	...	...
	Production workers:											
	Number.....	2,950	107	175	226	659	565	1,217	(D)	...	...	...
	Man-hours.....1,000..	5,670	222	307	397	1,237	1,064	2,442	(D)	...	...	...
	Wages.....\$1,000..	7,489	231	414	444	1,589	1,464	3,343	(D)	...	...	...
	Value added by mfg....do....	15,582	629	1,044	1,089	3,571	2,648	6,600	(D)	...	...	...
	Cost of materials.....do....	11,413	573	911	785	1,775	1,917	5,452	(D)	...	...	...
	Value of shipments.....do....	26,996	1,202	1,955	1,874	5,346	4,565	12,052	(D)	...	...	...
	Capital expenditures..do....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(D)	...	...	...
	Horsepower ⁵.....1,000 hp..	...	...	...	...	...	...	...	...	...	...	...
	Electricity used..mil. kwh..	2	(3)	(3)	(3)	1	(3)	1	(D)	...	...	...
2391	Curtains and draperies:											
	Number of establishments....	716	315	127	92	111	46	21	3	1	...	...
	Total employees.....	13,988	744	882	1,313	3,521	3,289	4,235	(D)	(D)	...	...
	Total payroll.....\$1,000..	36,899	1,640	2,394	3,469	9,755	8,845	10,794	(D)	(D)	...	...
	Production workers:											
	Number.....	12,350	616	758	1,140	3,066	2,907	3,860	(D)	(D)	...	...
	Man-hours.....1,000..	22,976	1,097	1,393	2,106	5,765	5,281	7,331	(D)	(D)	...	...
	Wages.....\$1,000..	27,304	1,174	1,714	2,716	7,005	6,338	8,353	(D)	(D)	...	...
	Value added by mfg....do....	61,392	3,488	4,348	5,886	16,402	14,177	17,088	(D)	(D)	...	...
	Cost of materials.....do....	111,275	5,642	7,937	8,859	29,773	24,410	34,652	(D)	(D)	...	...
	Value of shipments.....do....	172,668	9,130	12,286	14,746	46,175	38,588	51,741	(D)	(D)	...	...
	Capital expenditures..do....	1,208	(1)	(1)	(1)	(1)	(1)	(1)	(D)	(D)	...	...
	Horsepower ⁵.....1,000 hp..	...	...	...	...	...	...	...	...	...	...	...
	Electricity used..mil. kwh..	11	(3)	(3)	1	8	1	1	(D)	(D)	...	...
2392	Housefurnishings, nec:											
	Number of establishments....	1,213	487	190	175	204	82	55	14	5	1	...
	Total employees.....	36,188	1,188	1,348	2,498	6,396	5,738	8,272	5,403	5,341	(D)	...
	Total payroll.....\$1,000..	97,105	2,530	3,494	6,673	16,547	15,425	23,136	12,475	16,822	(D)	...
	Production workers:											
	Number.....	31,948	1,004	1,144	2,142	5,579	5,025	7,276	4,977	4,797	(D)	...
	Man-hours.....1,000..	59,271	1,731	1,986	3,831	10,133	9,342	13,555	9,276	9,414	(D)	...
	Wages.....\$1,000..	71,686	1,804	2,445	4,685	11,729	11,016	16,289	10,286	13,428	(D)	...
	Value added by mfg....do....	173,910	6,401	6,914	13,422	28,539	25,002	39,019	24,801	29,811	(D)	...
	Cost of materials.....do....	329,293	9,859	12,368	21,523	45,621	38,257	65,375	68,992	67,295	(D)	...
	Value of shipments.....do....	503,203	16,260	19,282	34,946	74,161	63,259	104,394	93,793	97,106	(D)	...
	Capital expenditures..do....	4,363	(1)	(1)	(1)	532	512	898	913	929	(D)	...
	Horsepower ⁵.....1,000 hp..	...	...	...	...	...	...	...	...	...	...	...
	Electricity used..mil. kwh..	71	37	(3)	1	17	1	4	7	4	(D)	...
2393	Textile bags:											
	Number of establishments....	268	66	32	49	44	38	34	4	1	...	...
	Total employees.....	12,109	169	237	687	1,345	2,616	7,053	(D)	(D)	...	...
	Total payroll.....\$1,000..	35,120	307	552	1,610	3,632	7,097	21,921	(D)	(D)	...	...
	Production workers:											
	Number.....	9,897	143	200	598	1,143	2,120	5,690	(D)	(D)	...	...
	Man-hours.....1,000..	18,748	239	363	1,059	2,059	3,997	11,030	(D)	(D)	...	...
	Wages.....\$1,000..	24,329	244	413	1,205	2,524	4,807	15,135	(D)	(D)	...	...
	Value added by mfg....do....	51,641	911	1,165	2,660	6,543	9,469	30,892	(D)	(D)	...	...
	Cost of materials.....do....	169,337	2,141	2,718	5,889	19,586	38,003	100,999	(D)	(D)	...	...
	Value of shipments.....do....	220,978	3,052	3,884	8,550	26,128	47,472	131,891	(D)	(D)	...	...
	Capital expenditures..do....	3,941	(1)	(1)	(1)	(1)	(1)	3,233	(D)	(D)	...	...
	Horsepower ⁵.....1,000 hp..	...	...	...	...	...	...	...	...	...	...	...
	Electricity used..mil. kwh..	18	(3)	(3)	(3)	3	3	12	(D)	(D)	...	...
2394	Canvas products:											
	Number of establishments....	1,119	592	226	151	105	31	11	3	...	...	...
	Total employees.....	13,540	1,535	1,568	2,081	3,250	2,216	1,963	925	...	...	...
	Total payroll.....\$1,000..	40,180	3,582	4,528	6,280	9,948	7,967	5,154	2,719	...	...	...
	Production workers:											
	Number.....	10,724	1,241	1,235	1,562	2,539	1,820	1,620	705	...	...	...
	Man-hours.....1,000..	20,498	2,339	2,371	3,002	4,827	3,616	3,107	1,233	...	...	...
	Wages.....\$1,000..	25,917	2,497	3,009	3,962	6,301	4,830	3,772	1,543	...	...	...
	Value added by mfg....do....	61,442	7,926	7,802	9,395	14,084	12,048	6,985	3,199	...	...	...
	Cost of materials.....do....	68,170	7,988	7,262	9,524	15,222	14,049	10,722	3,399	...	...	...
	Value of shipments.....do....	129,611	15,914	15,065	18,920	29,307	26,097	17,708	6,598	...	...	...
	Capital expenditures..do....	1,285	(1)	(1)	(1)	(1)	(1)	(1)	(1)	...	...	...
	Horsepower ⁵.....1,000 hp..	...	...	...	...	...	...	...	...	...	...	...
	Electricity used..mil. kwh..	12	2	1	1	2	3	2	1	...	...	...

See footnotes at end of table.

SIZE OF ESTABLISHMENTS

203-29

Table 1.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR MAJOR INDUSTRY GROUPS AND INDUSTRIES: 1954—Con.

Code	Industry group, industry, and item	Total, all estab- lish- ments	Establishments with an average of—									
			1-4 em- ployees	5-9 em- ployees	10-19 em- ployees	20-49 em- ployees	50-99 em- ployees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
2395	<u>Tucking, pleating and stitching:</u>											
	Number of establishments....	491	202	107	89	78	9	6	...	...	...	...
	Total employees.....	6,453	522	796	1,262	2,422	565	884	...	...	...	...
	Total payroll.....\$1,000..	17,602	1,118	2,053	3,402	6,836	1,737	2,455	...	...	...	...
	Production workers:											
	Number.....	6,021	485	753	1,163	2,273	502	842	...	...	...	...
	Man-hours.....1,000..	10,778	831	1,303	2,016	4,111	901	1,615	...	...	...	...
	Wages.....\$1,000..	14,828	933	1,802	2,784	5,820	1,307	2,180	...	...	...	...
	Value added by mfg....do....	27,904	2,515	3,661	5,616	10,562	2,418	3,131	...	...	...	...
	Cost of materials.....do....	6,674	872	890	1,157	2,503	728	522	...	...	...	...
	Value of shipments.....do....	34,578	3,386	4,551	6,773	13,066	3,147	3,653	...	...	...	...
	Capital expenditures..do....	644	(1)	(1)	(1)	(1)	(1)	(1)	...	...	...	...
	Horsepower ⁵.....1,000 hp..	...	...	...	...	...	...	...	...	...	...	...
	Electricity used..mil. kwh..	2	(3)	(3)	(3)	1	1	(3)	...	...	...	...
2396	<u>Trimmings and art goods:</u>											
	Number of establishments....	836	277	174	187	143	32	15	5	2	1	...
	Total employees.....	17,754	708	1,251	2,701	4,389	2,089	1,957	1,678	2,979	(D)	...
	Total payroll.....\$1,000..	55,623	1,648	3,435	7,240	11,799	5,777	6,342	6,719	12,661	(D)	...
	Production workers:											
	Number.....	15,045	601	1,084	2,338	3,809	1,761	1,616	1,271	2,563	(D)	...
	Man-hours.....1,000..	28,105	1,043	1,965	4,056	6,936	3,213	2,985	2,616	5,289	(D)	...
	Wages.....\$1,000..	40,558	1,155	2,535	5,329	8,520	3,900	4,296	4,539	10,281	(D)	...
	Value added by mfg....do....	87,687	3,649	6,140	12,568	18,687	9,228	8,812	7,635	20,964	(D)	...
	Cost of materials.....do....	155,228	4,102	7,484	13,385	21,120	10,410	15,309	26,424	56,991	(D)	...
	Value of shipments.....do....	242,915	7,752	13,624	25,954	39,808	19,638	24,122	34,059	77,956	(D)	...
	Capital expenditures..do....	7,691	(1)	(1)	(1)	855	(1)	(1)	5,354	805	(D)	...
	Horsepower ⁵.....1,000 hp..	...	...	...	...	...	...	...	...	...	...	...
	Electricity used..mil. kwh..	13	2	(3)	1	2	1	2	2	3	(D)	...
2397	<u>Schiffli-machine embroideries:</u>											
	Number of establishments....	601	249	180	115	50	5	2	...	...	...	...
	Total employees.....	5,715	705	1,301	1,539	1,565	604	(D)	...	...	...	...
	Total payroll.....\$1,000..	19,739	2,124	4,743	5,756	5,192	1,922	(D)	...	...	...	...
	Production workers:											
	Number.....	5,061	613	1,197	1,392	1,367	490	(D)	...	...	...	...
	Man-hours.....1,000..	9,969	1,116	2,351	2,810	2,696	993	(D)	...	...	...	...
	Wages.....\$1,000..	14,772	1,448	3,666	4,574	3,745	1,336	(D)	...	...	...	...
	Value added by mfg....do....	34,396	5,014	8,705	9,500	8,537	2,638	(D)	...	...	...	...
	Cost of materials.....do....	31,435	3,707	6,803	6,813	11,301	2,809	(D)	...	...	...	...
	Value of shipments.....do....	65,834	8,722	15,508	16,313	19,840	5,449	(D)	...	...	...	...
	Capital expenditures..do....	1,016	(1)	(1)	(1)	(1)	(1)	(D)	...	...	...	...
	Horsepower ⁵.....1,000 hp..	...	...	...	...	...	...	...	...	...	...	...
	Electricity used..mil. kwh..	3	1	(3)	1	1	(3)	(D)	...	...	...	...
2398	<u>Embroideries, except schiffli:</u>											
	Number of establishments....	926	440	183	162	102	35	4	...	...	...	...
	Total employees.....	10,803	1,075	1,324	2,320	3,024	2,406	652	...	...	...	...
	Total payroll.....\$1,000..	26,880	2,383	3,124	5,456	7,380	6,425	2,111	...	...	...	...
	Production workers:											
	Number.....	10,041	994	1,238	2,180	2,803	2,230	594	...	...	...	...
	Man-hours.....1,000..	16,409	1,596	1,970	3,437	4,645	3,719	1,040	...	...	...	...
	Wages.....\$1,000..	22,178	1,892	2,644	4,756	6,235	5,196	1,453	...	...	...	...
	Value added by mfg....do....	41,280	5,448	5,272	8,422	10,623	8,725	2,787	...	...	...	...
	Cost of materials.....do....	14,875	3,055	2,162	2,602	3,310	2,654	1,088	...	...	...	...
	Value of shipments.....do....	56,155	8,503	7,436	11,025	13,934	11,380	3,876	...	...	...	...
	Capital expenditures..do....	716	(1)	(1)	(1)	(1)	(1)	(1)	...	...	...	...
	Horsepower ⁵.....1,000 hp..	...	...	...	...	...	...	...	...	...	...	...
	Electricity used..mil. kwh..	3	(3)	(3)	(3)	2	1	(3)	...	...	...	...
2399	<u>Textile products, nec:</u>											
	Number of establishments....	1,104	524	205	169	127	46	28	5	...	...	...
	Total employees.....	18,006	1,208	1,489	2,437	3,977	3,026	4,483	1,382	...	...	...
	Total payroll.....\$1,000..	52,167	2,800	4,174	7,363	11,739	8,489	13,550	4,050	...	...	...
	Production workers:											
	Number.....	15,280	1,042	1,265	2,073	3,350	2,628	3,703	1,215	...	...	...
	Man-hours.....1,000..	28,733	1,857	2,308	3,869	6,265	4,916	7,203	2,312	...	...	...
	Wages.....\$1,000..	37,314	2,140	3,033	5,208	8,484	6,189	9,199	3,059	...	...	...
	Value added by mfg....do....	87,272	6,161	7,497	11,481	18,754	14,673	22,284	6,419	...	...	...
	Cost of materials.....do....	113,923	6,947	7,557	11,396	18,551	17,030	45,079	7,360	...	...	...
	Value of shipments.....do....	201,198	13,108	15,055	22,878	37,306	31,706	67,364	13,779	...	...	...
	Capital expenditures..do....	2,719	(1)	(1)	(1)	594	(1)	1,041	(1)	...	...	...
	Horsepower ⁵.....1,000 hp..	...	...	...	...	...	...	...	...	...	...	...
	Electricity used..mil. kwh..	15	1	1	(3)	3	4	5	1	...	...	...

See footnotes at end of table.

MANUFACTURES—SUMMARY STATISTICS

Table 1.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR MAJOR INDUSTRY GROUPS AND INDUSTRIES: 1954—Con.

Code	Industry group, industry, and item	Total, all estab- lish- ments	Establishments with an average of—									
			1-4 em- ployees	5-9 em- ployees	10-19 em- ployees	20-49 em- ployees	50-99 em- ployees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
24	<u>Lumber and wood products:</u>											
	Number of establishments....	41,484	22,748	7,260	5,089	3,695	1,560	851	215	57	8	1
	Total employees.....	645,936	49,721	50,571	72,025	115,738	108,424	125,521	73,203	39,095	11,637	(D)
	Total payroll.....\$1,000..	1,933,523	98,084	110,668	171,490	330,471	343,729	417,934	264,904	148,518	47,724	(D)
	Production workers:											
	Number.....	581,920	43,713	45,963	66,328	104,382	97,330	113,122	66,302	34,502	10,277	(D)
	Man-hours.....1,000..	1,106,955	73,270	77,722	113,459	194,148	192,963	229,034	136,118	70,772	19,468	(D)
	Wages.....\$1,000..	1,604,859	80,891	94,291	146,104	270,982	278,473	346,431	225,598	123,407	38,681	(D)
	Value added by mfg....do....	3,188,409	206,857	199,586	295,044	540,787	546,092	665,275	419,297	226,553	88,917	(D)
	Cost of materials.....do....	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(D)
	Value of shipments.....do....	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(D)
	Capital expenditures.....do....	217,361	26,089	19,689	22,517	37,630	30,287	30,623	24,169	20,561	5,795	(D)
	Horsepower.....1,000 hp..	5,151	144	249	528	1,050	921	1,068	659	396	136	(D)
	Electricity used..mil. kwh..	4,269	111	131	227	480	898	974	782	436	230	(D)
2411	<u>Logging camps and contractors:</u>											
	Number of establishments....	12,865	9,266	2,174	876	406	98	33	10	2	...	...
	Total employees.....	75,510	19,653	14,742	11,962	12,241	6,494	5,010	5,406	(D)	...	...
	Total payroll.....\$1,000..	210,625	39,805	32,927	31,526	39,097	24,833	18,998	23,437	(D)	...	...
	Production workers:											
	Number.....	68,171	17,066	13,284	11,198	11,508	5,908	4,432	4,772	(D)	...	...
	Man-hours.....1,000..	115,575	27,597	21,512	18,826	19,926	10,194	7,521	9,996	(D)	...	...
	Wages.....\$1,000..	182,295	32,572	28,417	28,618	35,481	21,250	16,203	19,751	(D)	...	...
	Value added by mfg....do....	389,928	92,798	64,792	61,690	70,492	39,801	28,977	31,375	(D)	...	...
	Cost of materials.....do....	343,525	72,283	45,675	41,541	49,701	43,432	33,495	57,396	(D)	...	...
	Value of shipments.....do....	733,417	165,047	110,465	103,232	120,193	83,234	62,472	88,772	(D)	...	...
	Capital expenditures.....do....	48,632	14,407	8,582	7,037	8,543	4,484	2,536	3,014	(D)	...	...
	Horsepower.....1,000 hp..	538	18	47	84	161	78	69	81	(D)	...	...
	Electricity used..mil. kwh..	43	4	5	4	12	7	5	6	(D)	...	...
2421	<u>Sawmills and planing mills:</u>											
	Number of establishments....	19,778	9,961	3,657	2,980	1,893	760	386	105	30	5	1
	Total employees.....	321,199	21,817	25,661	42,438	58,378	52,526	56,544	35,008	20,660	8,163	(D)
	Total payroll.....\$1,000..	906,847	37,349	47,215	84,522	149,311	159,283	188,596	126,416	82,217	31,934	(D)
	Production workers:											
	Number.....	296,070	19,784	24,000	40,141	54,041	48,171	51,844	31,920	18,626	7,540	(D)
	Man-hours.....1,000..	558,428	32,868	39,524	65,992	98,895	95,666	105,737	67,562	38,207	13,973	(D)
	Wages.....\$1,000..	781,760	32,299	41,989	75,302	128,057	134,495	161,751	109,134	70,556	28,172	(D)
	Value added by mfg....do....	1,502,911	71,790	83,121	146,040	251,963	259,924	297,356	205,005	126,564	61,144	(D)
	Cost of materials.....do....	1,744,005	76,353	90,418	171,995	357,769	339,455	336,098	213,322	97,328	60,993	(D)
	Value of shipments.....do....	3,247,200	148,148	173,527	318,035	609,701	599,659	633,502	418,327	223,893	122,407	(D)
	Capital expenditures.....do....	115,533	8,850	8,743	11,667	18,434	17,010	15,910	16,499	15,224	3,192	(D)
	Horsepower.....1,000 hp..	3,130	102	162	350	583	536	615	395	258	129	(D)
	Electricity used..mil. kwh..	2,810	57	82	145	300	667	616	461	269	213	(D)
2422	<u>Veneer mills:</u>											
	Number of establishments....	261	16	11	22	109	83	20	...	...	...	...
	Total employees.....	12,825	32	85	346	3,853	5,755	2,751	...	...	...	...
	Total payroll.....\$1,000..	35,453	113	207	782	9,912	16,495	7,943	...	...	...	...
	Production workers:											
	Number.....	11,796	29	81	327	3,557	5,274	2,525	...	...	...	...
	Man-hours.....1,000..	23,254	54	139	574	6,575	10,871	5,039	...	...	...	...
	Wages.....\$1,000..	28,464	55	167	667	7,983	13,341	6,248	...	...	...	...
	Value added by mfg....do....	59,250	286	532	1,188	17,061	27,640	12,541	...	...	...	...
	Cost of materials.....do....	61,468	334	544	1,029	18,509	29,705	11,345	...	...	...	...
	Value of shipments.....do....	120,718	621	1,077	2,217	35,570	57,346	23,887	...	...	...	...
	Capital expenditures.....do....	3,146	(1)	(1)	(1)	1,653	976	(1)	...	...	...	...
	Horsepower.....1,000 hp..	76	(2)	(2)	3	27	34	12	...	...	...	...
	Electricity used..mil. kwh..	73	(3)	1	2	20	37	13	...	...	...	...
2423	<u>Shingle mills:</u>											
	Number of establishments....	175	91	31	20	18	13	2	...	...	...	...
	Total employees.....	2,532	204	225	288	654	1,160	(D)	...	...	...	...
	Total payroll.....\$1,000..	9,367	479	717	951	2,529	4,690	(D)	...	...	...	...
	Production workers:											
	Number.....	2,339	191	214	264	621	1,046	(D)	...	...	...	...
	Man-hours.....1,000..	3,223	234	271	371	824	1,520	(D)	...	...	...	...
	Wages.....\$1,000..	7,970	431	645	817	2,237	3,838	(D)	...	...	...	...
	Value added by mfg....do....	15,451	1,092	1,124	1,684	3,785	7,763	(D)	...	...	...	...
	Cost of materials.....do....	18,183	1,214	1,205	1,640	4,098	10,023	(D)	...	...	...	...
	Value of shipments.....do....	33,632	2,305	2,330	3,325	7,884	14,787	(D)	...	...	...	...
	Capital expenditures.....do....	984	532	(1)	(1)	(1)	(1)	(D)	...	...	...	...
	Horsepower.....1,000 hp..	12	(2)	1	1	5	4	(D)	...	...	...	...
	Electricity used..mil. kwh..	16	(3)	1	2	4	2	(D)	...	...	...	...

See footnotes at end of table.

SIZE OF ESTABLISHMENTS

203-31

Table 1.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR MAJOR INDUSTRY GROUPS AND INDUSTRIES: 1954—Con.

Code	Industry group, industry, and item	Total, all estab- lish- ments	Establishments with an average of—									
			1-4 em- ployees	5-9 em- ployees	10-19 em- ployees	20-49 em- ployees	50-99 em- ployees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
2424	<u>Cooperage stock mills:</u>											
	Number of establishments....	205	50	55	45	42	11	2	...	...	...	...
	Total employees.....	3,368	115	407	646	1,243	955	(D)	...	...	...	...
	Total payroll.....\$1,000..	6,521	191	821	1,145	2,420	1,943	(D)	...	...	...	...
	Production workers:											
	Number.....	3,188	104	375	601	1,189	918	(D)	...	...	...	...
	Man-hours.....1,000..	5,575	169	606	993	2,067	1,738	(D)	...	...	...	...
	Wages.....\$1,000..	5,793	167	711	1,006	2,130	1,778	(D)	...	...	...	...
	Value added by mfg....do....	10,843	394	1,906	2,234	3,683	2,623	(D)	...	...	...	...
	Cost of materials.....do....	15,486	657	2,903	2,696	4,130	5,098	(D)	...	...	...	...
	Value of shipments.....do....	26,330	1,052	4,810	4,931	7,814	7,723	(D)	...	...	...	...
	Capital expenditures.....do....	(1)	(1)	(1)	(1)	(1)	(1)	(D)	...	...	...	...
	Horsepower.....1,000 hp..	31	1	5	5	13	7	(D)	...	...	...	...
	Electricity used..mil. kwh..	9	(2)	1	2	2	4	(D)	...	...	...	...
2425	<u>Excelsior mills:</u>											
	Number of establishments....	68	20	11	17	15	3	2	...	...	...	...
	Total employees.....	1,424	136	(D)	252	1,035	(D)	(D)	...	...	...	...
	Total payroll.....\$1,000..	4,150	268	(D)	658	3,222	(D)	(D)	...	...	...	...
	Production workers:											
	Number.....	1,290	122	(D)	224	942	(D)	(D)	...	...	...	...
	Man-hours.....1,000..	2,463	216	(D)	469	1,776	(D)	(D)	...	...	...	...
	Wages.....\$1,000..	3,547	215	(D)	521	2,810	(D)	(D)	...	...	...	...
	Value added by mfg....do....	6,928	614	(D)	1,119	5,191	(D)	(D)	...	...	...	...
	Cost of materials.....do....	5,138	539	(D)	1,023	3,574	(D)	(D)	...	...	...	...
	Value of shipments.....do....	12,066	1,155	(D)	2,143	8,767	(D)	(D)	...	...	...	...
	Capital expenditures.....do....	(1)	(1)	(D)	(1)	(1)	(D)	(D)	...	...	...	...
	Horsepower.....1,000 hp..	13	(2)	(D)	3	10	(D)	(D)	...	...	...	...
	Electricity used..mil. kwh..	7	(3)	(D)	1	6	(D)	(D)	...	...	...	...
2431	<u>Millwork plants:</u>											
	Number of establishments....	3,348	1,594	567	456	438	173	87	25	6	2	...
	Total employees.....	68,668	3,784	3,978	6,430	13,989	12,070	12,956	9,114	6,345	(D)	...
	Total payroll.....\$1,000..	258,198	10,999	14,134	24,140	54,309	47,242	50,109	32,927	24,336	(D)	...
	Production workers:											
	Number.....	55,700	2,940	3,187	5,127	11,058	9,852	10,680	7,832	5,022	(D)	...
	Man-hours.....1,000..	113,488	5,775	6,394	10,179	22,341	20,201	22,104	16,145	10,347	(D)	...
	Wages.....\$1,000..	188,156	8,042	10,612	17,548	38,257	33,701	36,477	25,565	17,952	(D)	...
	Value added by mfg....do....	374,518	21,466	21,944	35,771	73,529	64,107	72,831	47,717	37,150	(D)	...
	Cost of materials.....do....	498,490	29,472	27,269	46,264	96,262	87,944	101,432	63,727	46,116	(D)	...
	Value of shipments.....do....	873,007	50,938	49,214	82,035	169,792	152,051	174,263	111,444	83,267	(D)	...
	Capital expenditures.....do....	13,737	1,246	1,036	1,269	2,210	1,826	2,269	2,080	1,798	(D)	...
	Horsepower.....1,000 hp..	362	6	16	31	83	68	76	57	25	(D)	...
	Electricity used..mil. kwh..	323	15	20	30	56	48	64	54	36	(D)	...
2432	<u>Plywood plants:</u>											
	Number of establishments....	255	9	12	12	31	45	99	38	9	...	...
	Total employees.....	39,201	28	87	160	1,053	3,443	16,000	12,679	5,748	...	...
	Total payroll.....\$1,000..	152,301	66	294	471	3,391	10,811	58,265	55,015	23,986	...	...
	Production workers:											
	Number.....	36,100	25	75	139	938	3,163	14,855	11,743	5,160	...	...
	Man-hours.....1,000..	74,155	42	156	247	1,839	6,586	31,509	23,581	10,192	...	...
	Wages.....\$1,000..	133,940	56	242	378	2,788	9,051	51,010	49,311	21,101	...	...
	Value added by mfg....do....	246,250	149	540	749	6,121	16,001	94,525	88,460	39,702	...	...
	Cost of materials.....do....	268,772	276	1,475	929	8,827	20,980	105,772	91,354	39,157	...	...
	Value of shipments.....do....	515,023	426	2,016	1,679	14,948	36,981	200,298	179,814	78,859	...	...
	Capital expenditures.....do....	11,193	(1)	(1)	(1)	1,010	944	4,145	2,180	2,519	...	...
	Horsepower.....1,000 hp..	286	7	1	(2)	13	21	103	97	44	...	...
	Electricity used..mil. kwh..	503	11	2	1	6	23	153	198	109	...	...
2433	<u>Prefabricated wood products:</u>											
	Number of establishments....	231	52	28	40	53	32	20	3	2	1	...
	Total employees.....	11,547	124	205	578	1,665	2,229	2,804	1,069	2,869	(D)	...
	Total payroll.....\$1,000..	45,905	416	721	2,151	6,670	9,117	10,282	4,237	12,311	(D)	...
	Production workers:											
	Number.....	9,216	109	167	483	1,362	1,770	2,294	873	2,154	(D)	...
	Man-hours.....1,000..	17,615	205	304	953	2,461	3,624	4,322	1,800	3,946	(D)	...
	Wages.....\$1,000..	29,125	316	516	1,617	4,432	6,068	7,239	2,583	6,349	(D)	...
	Value added by mfg....do....	88,999	633	1,231	3,770	12,698	17,733	24,273	8,145	20,511	(D)	...
	Cost of materials.....do....	135,388	1,262	2,396	5,656	21,761	26,786	34,756	9,998	32,772	(D)	...
	Value of shipments.....do....	224,388	1,895	3,628	9,427	34,460	44,520	59,032	18,143	53,283	(D)	...
	Capital expenditures.....do....	3,681	(1)	(1)	(1)	(1)	510	(1)	(1)	1,688	(D)	...
	Horsepower.....1,000 hp..	42	(2)	(2)	1	4	7	4	4	22	(D)	...
	Electricity used..mil. kwh..	45	3	1	4	5	8	5	4	15	(D)	...

See footnotes at end of table.

MANUFACTURES--SUMMARY STATISTICS

Table 1.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR MAJOR INDUSTRY GROUPS AND INDUSTRIES: 1954—Con.

Code	Industry group, industry, and item	Total, all estab- lish- ments	Establishments with an average of—									
			1-4 em- ployees	5-9 em- ployees	10-19 em- ployees	20-49 em- ployees	50-99 em- ployees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
2441	Fruit and vegetable baskets:											
	Number of establishments....	134	27	24	13	30	22	13	4	1	...	...
	Total employees.....	6,685	54	171	200	984	1,500	1,949	1,825	(D)	...	...
	Total payroll.....\$1,000..	13,869	104	332	400	2,008	3,198	3,982	3,843	(D)	...	...
	Production workers:											
	Number.....	6,278	48	154	191	899	1,394	1,867	1,723	(D)	...	...
	Man-hours.....1,000..	12,497	87	281	315	1,702	2,779	3,781	3,551	(D)	...	...
	Wages.....\$1,000..	11,782	74	249	347	1,618	2,466	3,657	3,369	(D)	...	...
	Value added by mfg....do....	18,961	222	481	609	2,875	4,335	4,816	5,621	(D)	...	...
	Cost of materials.....do....	11,554	391	311	319	1,315	2,792	3,417	3,006	(D)	...	...
	Value of shipments.....do....	30,516	614	793	929	4,191	7,127	8,233	8,628	(D)	...	...
	Capital expenditures.....do....	674	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(D)	...	...
	Horsepower.....1,000 hp..	21	(2)	(2)	1	2	4	8	6	(D)	...	...
	Electricity used..mil. kwh..	13	(3)	(3)	(3)	1	3	4	2	(D)	...	...
2442	Rattan and willow ware:											
	Number of establishments....	75	33	19	6	10	5	2	...	...	...	...
	Total employees.....	1,293	72	141	83	296	700	(D)	...	...	...	...
	Total payroll.....\$1,000..	3,307	129	344	186	629	2,017	(D)	...	...	...	...
	Production workers:											
	Number.....	1,159	65	123	72	262	635	(D)	...	...	...	...
	Man-hours.....1,000..	2,228	117	229	123	486	1,272	(D)	...	...	...	...
	Wages.....\$1,000..	2,731	109	262	163	518	1,679	(D)	...	...	...	...
	Value added by mfg....do....	5,329	301	731	334	844	3,117	(D)	...	...	...	...
	Cost of materials.....do....	5,687	319	791	322	846	3,407	(D)	...	...	...	...
	Value of shipments.....do....	11,017	621	1,522	657	1,691	6,525	(D)	...	...	...	...
	Capital expenditures.....do....	(1)	(1)	(1)	(1)	(1)	(1)	(D)	...	...	...	...
	Horsepower.....1,000 hp..	2	(2)	(2)	(2)	1	1	(D)	...	...	...	...
	Electricity used..mil. kwh..	3	(3)	(3)	(3)	1	2	(D)	...	...	...	...
2443	Cigar boxes:											
	Number of establishments....	23	4	1	5	4	6	3	...	...	...	...
	Total employees.....	1,081	15	(D)	81	146	426	412	...	...	...	...
	Total payroll.....\$1,000..	2,333	28	(D)	159	369	902	874	...	...	...	...
	Production workers:											
	Number.....	992	13	(D)	71	129	399	378	...	...	...	...
	Man-hours.....1,000..	2,019	22	(D)	146	247	788	814	...	...	...	...
	Wages.....\$1,000..	1,971	18	(D)	133	293	799	727	...	...	...	...
	Value added by mfg....do....	3,988	48	(D)	272	578	1,520	1,568	...	...	...	...
	Cost of materials.....do....	3,900	48	(D)	232	582	1,813	1,223	...	...	...	...
	Value of shipments.....do....	7,889	96	(D)	505	1,161	3,333	2,792	...	...	...	...
	Capital expenditures.....do....	(1)	(1)	(D)	(1)	(1)	(1)	(1)	...	...	...	...
	Horsepower.....1,000 hp..	1	(2)	(D)	(2)	(2)	1	(2)	...	...	...	...
	Electricity used..mil. kwh..	1	(3)	(D)	(3)	(3)	(3)	1	...	...	...	...
2444	Wooden boxes:											
	Number of establishments....	1,101	336	177	175	216	101	72	19	5	...	...
	Total employees.....	39,522	757	1,265	2,551	7,158	7,420	10,316	6,611	3,440	...	...
	Total payroll.....\$1,000..	105,781	1,730	3,405	7,118	19,921	21,210	27,819	15,514	9,062	...	...
	Production workers:											
	Number.....	35,871	660	1,120	2,264	6,393	6,744	9,360	6,144	3,182	...	...
	Man-hours.....1,000..	70,136	1,200	2,183	4,317	12,315	13,141	18,545	11,819	6,613	...	...
	Wages.....\$1,000..	86,643	1,361	2,869	5,704	15,726	17,079	22,503	13,384	8,015	...	...
	Value added by mfg....do....	165,361	3,471	5,930	11,113	31,142	31,668	42,523	25,432	14,079	...	...
	Cost of materials.....do....	186,754	4,849	8,119	16,057	39,823	39,965	45,122	25,762	7,054	...	...
	Value of shipments.....do....	352,108	8,321	14,050	27,169	70,959	71,633	87,645	51,195	21,134	...	...
	Capital expenditures.....do....	6,109	(1)	(1)	(1)	1,274	1,509	1,153	705	528	...	...
	Horsepower.....1,000 hp..	215	4	5	14	50	47	48	32	15	...	...
	Electricity used..mil. kwh..	165	7	5	10	24	32	37	33	17	...	...
2445	Cooperage:											
	Number of establishments....	180	83	46	19	14	6	11	1	...	...	...
	Total employees.....	3,723	180	330	280	482	491	1,958	(D)	...	...	...
	Total payroll.....\$1,000..	12,350	470	962	830	1,718	1,438	6,930	(D)	...	...	...
	Production workers:											
	Number.....	3,377	171	304	253	423	452	1,772	(D)	...	...	...
	Man-hours.....1,000..	6,497	317	572	457	859	909	3,381	(D)	...	...	...
	Wages.....\$1,000..	10,507	451	866	713	1,373	1,296	5,805	(D)	...	...	...
	Value added by mfg....do....	21,656	1,070	1,635	1,635	2,624	2,535	12,154	(D)	...	...	...
	Cost of materials.....do....	38,693	2,376	3,517	2,513	4,637	4,410	21,237	(D)	...	...	...
	Value of shipments.....do....	60,350	3,446	5,153	4,149	7,262	6,946	33,392	(D)	...	...	...
	Capital expenditures.....do....	973	(1)	(1)	(1)	(1)	(1)	743	(D)	...	...	...
	Horsepower.....1,000 hp..	32	1	1	2	2	9	17	(D)	...	...	...
	Electricity used..mil. kwh..	18	1	1	1	1	4	10	(D)	...	...	...

See footnotes at end of table.

SIZE OF ESTABLISHMENTS

203-33

Table 1.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR MAJOR INDUSTRY GROUPS AND INDUSTRIES: 1954—Con.

Code	Industry group, industry, and item	Total, all estab- lish- ments	Establishments with an average of—									
			1-4 em- ployees	5-9 em- ployees	10-19 em- ployees	20-49 em- ployees	50-99 em- ployees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
2491	Wood preserving:											
	Number of establishments....	288	62	32	36	66	59	31	1	1	...	...
	Total employees.....	12,073	156	229	546	2,095	4,120	4,924	(D)	(D)	...	...
	Total payroll.....\$1,000..	36,162	361	536	1,520	6,455	13,538	13,750	(D)	(D)	...	...
	Production workers:											
	Number.....	10,409	130	194	470	1,761	3,567	4,284	(D)	(D)	...	...
	Man-hours.....1,000..	20,671	237	363	896	3,408	7,311	8,453	(D)	(D)	...	...
	Wages.....\$1,000..	28,020	254	412	1,214	4,842	10,675	10,620	(D)	(D)	...	...
	Value added by mfg....do....	69,257	687	1,070	2,690	12,321	26,692	25,794	(D)	(D)	...	...
	Cost of materials.....do....	121,245	1,154	2,271	5,228	21,881	47,857	42,851	(D)	(D)	...	...
	Value of shipments.....do....	190,503	1,841	3,342	7,919	34,203	74,550	68,648	(D)	(D)	...	...
	Capital expenditures....do....	4,700	(1)	(1)	(1)	1,876	1,186	1,355	(D)	(D)	...	...
	Horsepower.....1,000 hp..	145	1	1	5	27	54	57	(D)	(D)	...	...
	Electricity used..mil. kwh..	47	2	1	2	6	19	17	(D)	(D)	...	...
2492	Lasts and related products:											
	Number of establishments....	51	10	11	7	10	11	2	...	...	...	...
	Total employees.....	1,463	30	75	103	1,253	(D)	(D)	...	...	...	...
	Total payroll.....\$1,000..	5,640	95	303	488	4,753	(D)	(D)	...	...	...	...
	Production workers:											
	Number.....	1,220	27	67	83	1,042	(D)	(D)	...	...	...	...
	Man-hours.....1,000..	2,425	54	132	163	2,075	(D)	(D)	...	...	...	...
	Wages.....\$1,000..	4,190	71	248	356	3,513	(D)	(D)	...	...	...	...
	Value added by mfg....do....	8,210	166	496	697	6,850	(D)	(D)	...	...	...	...
	Cost of materials.....do....	3,742	48	72	171	3,449	(D)	(D)	...	...	...	...
	Value of shipments.....do....	11,953	215	568	868	10,300	(D)	(D)	...	...	...	...
	Capital expenditures....do....	(1)	(1)	(1)	(1)	(1)	(D)	(D)	...	...	...	...
	Horsepower.....1,000 hp..	5	...	...	(2)	5	(D)	(D)	...	...	...	...
	Electricity used..mil. kwh..	3	...	(3)	(3)	3	(D)	(D)	...	...	...	...
2493	Mirror and picture frames:											
	Number of establishments....	343	200	48	45	28	12	8	1	1	...	...
	Total employees.....	5,214	479	333	619	904	824	2,053	(D)	(D)	...	...
	Total payroll.....\$1,000..	17,351	1,231	1,034	2,010	2,993	2,574	7,508	(D)	(D)	...	...
	Production workers:											
	Number.....	4,420	416	282	537	746	705	1,731	(D)	(D)	...	...
	Man-hours.....1,000..	8,845	820	551	1,061	1,565	1,359	3,486	(D)	(D)	...	...
	Wages.....\$1,000..	12,520	957	740	1,536	2,125	1,867	5,291	(D)	(D)	...	...
	Value added by mfg....do....	27,601	2,687	1,849	3,107	4,588	4,213	11,135	(D)	(D)	...	...
	Cost of materials.....do....	20,020	2,060	1,696	2,256	2,892	3,306	7,808	(D)	(D)	...	...
	Value of shipments.....do....	47,622	4,748	3,546	5,363	7,480	7,519	18,963	(D)	(D)	...	...
	Capital expenditures....do....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(D)	(D)	...	...
	Horsepower.....1,000 hp..	8	(2)	(2)	(2)	1	2	5	(D)	(D)	...	...
	Electricity used..mil. kwh..	10	(3)	1	1	1	2	5	(D)	(D)	...	...
2499	Wood products, nec:											
	Number of establishments....	2,103	934	356	315	312	120	58	8	...	...	...
	Total employees.....	38,600	2,167	2,555	4,462	9,739	8,279	8,659	2,736	...	...	...
	Total payroll.....\$1,000..	107,357	4,433	6,533	12,433	25,996	24,350	25,150	8,460	...	...	...
	Production workers:											
	Number.....	34,318	1,886	2,263	3,883	8,742	7,371	7,771	2,400	...	...	...
	Man-hours.....1,000..	67,852	3,387	4,374	7,377	17,228	15,058	15,747	4,679	...	...	...
	Wages.....\$1,000..	85,438	3,579	5,210	9,464	20,914	19,263	20,254	6,752	...	...	...
	Value added by mfg....do....	172,961	9,390	11,797	20,342	41,942	37,006	39,776	12,706	...	...	...
	Cost of materials.....do....	156,790	8,241	11,903	19,215	38,715	33,539	34,483	10,692	...	...	...
	Value of shipments.....do....	329,758	17,632	23,701	39,558	80,664	70,545	74,259	23,398	...	...	...
	Capital expenditures....do....	6,605	558	568	1,099	1,530	1,131	1,419	(1)	...	...	...
	Horsepower.....1,000 hp..	232	4	10	28	71	46	59	14	...	...	...
	Electricity used..mil. kwh..	180	11	10	22	38	36	41	22	...	...	...
25	Furniture and fixtures:											
	Number of establishments....	10,273	4,065	1,720	1,476	1,529	753	500	159	52	17	2
	Total employees.....	340,694	9,827	12,236	20,990	47,981	52,325	77,395	55,912	36,276	27,751	(D)
	Total payroll.....\$1,000..	1,197,376	25,848	39,448	71,053	167,033	186,763	269,242	194,734	127,360	115,894	(D)
	Production workers:											
	Number.....	286,649	8,031	10,236	17,459	39,973	44,496	66,079	47,405	29,003	23,966	(D)
	Man-hours.....1,000..	571,294	15,135	19,617	33,777	78,324	88,564	132,828	97,150	58,971	46,927	(D)
	Wages.....\$1,000..	892,891	19,613	29,861	53,557	121,893	136,672	201,529	144,493	95,832	89,440	(D)
	Value added by mfg....do....	1,966,410	54,830	67,586	113,588	266,550	301,465	430,679	326,676	221,127	183,908	(D)
	Cost of materials.....do....	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(D)
	Value of shipments.....do....	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(D)
	Capital expenditures....do....	61,945	2,636	2,841	4,024	8,814	7,362	14,450	8,305	7,301	6,211	(D)
	Horsepower.....1,000 hp..	949	31	12	38	121	135	245	178	91	98	(D)
	Electricity used..mil. kwh..	1,217	44	36	66	141	149	253	211	148	169	(D)

See footnotes at end of table.

Table 1.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR MAJOR INDUSTRY GROUPS AND INDUSTRIES: 1954—Con.

Code	Industry group, industry, and item	Total, all estab- lish- ments	Establishments with an average of—									1,000- 2,499 employees	2,500 employees and over
			1-4 em- ployees	5-9 em- ployees	10-19 em- ployees	20-49 em- ployees	50-99 em- ployees	100-249 employees	250-499 employees	500-999 employees			
2511	Wood furniture, not upholstered:												
	Number of establishments....	2,785	1,030	428	369	406	234	217	71	22	8	...	...
	Total employees.....	124,898	2,411	3,055	5,242	12,744	16,383	35,160	25,452	14,173	10,276	...	...
	Total payroll.....\$1,000..	388,409	6,211	9,481	16,439	39,068	51,807	110,531	76,524	44,550	33,796	...	...
	Production workers:												
	Number.....	109,618	2,062	2,653	4,524	11,004	14,368	30,827	22,513	12,645	9,018	...	...
	Man-hours.....1,000..	222,063	3,927	5,195	8,816	22,075	28,876	62,812	45,861	26,352	18,147	...	...
	Wages.....\$1,000..	303,249	4,852	7,412	13,175	30,598	39,852	85,770	60,061	35,502	26,024	...	...
	Value added by mfg....do....	592,714	11,914	15,666	24,763	60,296	79,378	165,942	123,530	67,510	43,711	...	...
	Cost of materials.....do....	520,550	14,114	15,401	23,319	54,138	71,039	131,425	108,000	57,798	45,312	...	...
	Value of shipments.....do....	1,113,264	26,029	31,068	48,083	114,434	150,417	297,369	231,531	125,308	89,023	...	...
	Capital expenditures....do....	17,161	686	687	1,182	1,764	1,947	3,953	3,073	2,596	1,270	...	...
	Horsepower.....1,000 hp..	492	25	5	16	51	67	139	110	44	35	...	...
	Electricity used..mil. kwh..	535	19	14	23	41	58	130	109	70	71	...	...
2512	Upholstered household furniture:												
	Number of establishments....	1,780	523	310	302	342	178	99	22	4	...	...	...
	Total employees.....	56,022	1,334	2,205	4,328	10,763	12,420	14,443	10,526	(D)	...	...	...
	Total payroll.....\$1,000..	193,596	3,754	7,108	14,680	36,683	42,503	50,196	38,671	(D)	...	...	...
	Production workers:												
	Number.....	48,119	1,130	1,987	3,717	9,176	10,681	12,443	8,982	(D)	...	...	...
	Man-hours.....1,000..	93,276	2,082	3,635	6,891	17,189	20,767	24,409	18,300	(D)	...	...	...
	Wages.....\$1,000..	146,990	2,907	5,661	11,339	27,428	32,055	38,006	29,592	(D)	...	...	...
	Value added by mfg....do....	313,034	7,504	12,249	22,311	56,724	68,773	81,464	64,005	(D)	...	...	...
	Cost of materials.....do....	319,780	7,875	12,128	22,628	57,929	70,807	85,217	63,192	(D)	...	...	...
	Value of shipments.....do....	632,813	15,380	24,378	44,940	114,653	139,580	166,681	127,199	(D)	...	...	...
	Capital expenditures....do....	6,934	(1)	(1)	754	1,322	917	2,003	1,429	(D)	...	...	...
	Horsepower.....1,000 hp..	79	2	1	4	17	18	23	14	(D)	...	...	...
	Electricity used..mil. kwh..	120	4	2	7	31	21	30	25	(D)	...	...	...
2514	Metal household furniture:												
	Number of establishments....	641	200	96	84	127	69	42	12	10	1	...	...
	Total employees.....	29,629	517	699	1,187	3,971	4,792	6,401	4,046	8,013	(D)	...	...
	Total payroll.....\$1,000..	110,933	1,373	2,110	3,790	12,962	16,474	23,732	15,621	34,869	(D)	...	...
	Production workers:												
	Number.....	24,345	439	593	993	3,394	4,048	5,246	3,346	6,282	(D)	...	...
	Man-hours.....1,000..	47,083	799	1,103	1,872	6,601	8,051	10,196	6,465	11,992	(D)	...	...
	Wages.....\$1,000..	80,199	1,022	1,591	2,783	9,643	11,958	17,079	11,319	24,800	(D)	...	...
	Value added by mfg....do....	190,816	3,033	3,736	7,172	22,557	29,202	36,920	28,346	59,847	(D)	...	...
	Cost of materials.....do....	211,758	4,492	5,734	9,663	28,260	34,381	43,158	33,875	52,192	(D)	...	...
	Value of shipments.....do....	402,575	7,526	9,471	16,836	50,817	63,584	80,079	62,221	112,039	(D)	...	...
	Capital expenditures....do....	8,720	(1)	(1)	(1)	831	820	3,085	771	2,631	(D)	...	...
	Horsepower.....1,000 hp..	78	(2)	(2)	1	7	7	22	19	22	(D)	...	...
	Electricity used..mil. kwh..	127	6	2	5	12	17	23	18	44	(D)	...	...
2515	Mattresses and bedsprings:												
	Number of establishments....	1,195	535	209	185	147	72	29	11	4	2	...	1
	Total employees.....	32,096	1,332	1,483	2,619	4,664	4,843	4,431	4,014	8,708	(D)	(D)	(D)
	Total payroll.....\$1,000..	121,516	2,858	4,340	8,575	17,411	18,909	17,106	17,429	34,885	(D)	(D)	(D)
	Production workers:												
	Number.....	25,122	1,020	1,162	2,056	3,641	3,714	3,524	3,136	6,865	(D)	(D)	(D)
	Man-hours.....1,000..	49,325	1,940	2,273	4,068	7,146	7,347	6,729	6,525	13,294	(D)	(D)	(D)
	Wages.....\$1,000..	84,588	2,130	3,161	5,985	11,004	11,514	10,521	11,999	28,269	(D)	(D)	(D)
	Value added by mfg....do....	216,362	6,749	8,188	14,971	31,033	35,176	29,760	28,573	61,908	(D)	(D)	(D)
	Cost of materials.....do....	248,153	8,780	11,525	20,542	39,105	48,339	37,896	31,544	20,419	(D)	(D)	(D)
	Value of shipments.....do....	464,516	15,530	19,714	35,514	70,139	83,516	67,656	60,117	112,327	(D)	(D)	(D)
	Capital expenditures....do....	5,306	(1)	(1)	(1)	1,227	728	566	594	971	(D)	(D)	(D)
	Horsepower.....1,000 hp..	49	2	1	2	9	6	5	4	20	(D)	(D)	(D)
	Electricity used..mil. kwh..	79	3	2	6	10	13	10	9	26	(D)	(D)	(D)
2519	Household furniture, nec:												
	Number of establishments....	69	30	7	13	14	3	2	...	...	...	...	...
	Total employees.....	1,285	79	47	187	471	499	(D)	...	...	...	...	...
	Total payroll.....\$1,000..	4,437	227	148	599	1,596	1,866	(D)	...	...	...	...	...
	Production workers:												
	Number.....	1,056	65	37	158	398	396	(D)	...	...	...	...	...
	Man-hours.....1,000..	2,074	129	72	320	720	832	(D)	...	...	...	...	...
	Wages.....\$1,000..	3,316	164	114	500	1,103	1,434	(D)	...	...	...	...	...
	Value added by mfg....do....	7,815	396	240	914	2,726	3,537	(D)	...	...	...	...	...
	Cost of materials.....do....	7,760	357	205	765	2,480	3,951	(D)	...	...	...	...	...
	Value of shipments.....do....	15,576	754	445	1,680	5,207	7,489	(D)	...	...	...	...	...
	Capital expenditures....do....	2,161	(1)	(1)	(1)	(1)	1,901	(D)	...	...	...	...	...
	Horsepower.....1,000 hp..	2	(2)	(2)	(2)	1	1	(D)	...	...	...	...	...
	Electricity used..mil. kwh..	4	(3)	(3)	(3)	1	3	(D)	...	...	...	...	...

See footnotes at end of table.

SIZE OF ESTABLISHMENTS

203-35

Table 1.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR MAJOR INDUSTRY GROUPS AND INDUSTRIES: 1954—Con.

Code	Industry group, industry, and item	Total, all estab- lish- ments	Establishments with an average of—									
			1-4 em- ployees	5-9 em- ployees	10-19 em- ployees	20-49 em- ployees	50-99 em- ployees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
2521	Wood office furniture:											
	Number of establishments....	112	20	14	28	23	5	17	5	...	...	...
	Total employees.....	5,509	44	108	395	696	365	2,315	1,583	...	...	...
	Total payroll.....\$1,000..	18,788	130	395	1,328	2,483	1,233	7,577	5,640	...	...	...
	Production workers:											
	Number.....	4,773	38	91	355	604	327	1,994	1,362	...	...	...
	Man-hours.....1,000..	9,681	72	168	692	1,238	645	4,019	2,845	...	...	...
	Wages.....\$1,000..	14,605	95	302	1,105	2,037	983	5,816	4,264	...	...	...
	Value added by mfg....do....	28,757	276	527	1,978	3,768	1,756	11,250	9,201	...	...	...
	Cost of materials.....do....	23,954	311	667	1,506	2,998	2,048	10,573	5,849	...	...	...
	Value of shipments.....do....	52,712	588	1,195	3,484	6,767	3,805	21,823	15,050	...	...	...
	Capital expenditures...do....	615	(1)	(1)	(1)	(1)	(1)	(1)	(1)	...	...	...
	Horsepower.....1,000 hp..	22	(2)	1	1	3	2	11	4	...	...	...
	Electricity used...mil. kwh..	20	(3)	1	1	2	1	7	8	...	...	...
2522	Metal office furniture:											
	Number of establishments....	129	21	14	17	28	14	21	6	6	1	1
	Total employees.....	16,143	58	93	228	926	940	3,307	2,417	8,171	(D)	(D)
	Total payroll.....\$1,000..	66,038	164	294	755	3,264	3,328	14,065	8,780	35,386	(D)	(D)
	Production workers:											
	Number.....	13,397	45	74	182	772	765	2,805	1,884	6,869	(D)	(D)
	Man-hours.....1,000..	26,765	91	149	355	1,523	1,585	5,740	3,749	13,569	(D)	(D)
	Wages.....\$1,000..	51,535	122	234	533	2,339	2,281	10,951	6,433	28,639	(D)	(D)
	Value added by mfg....do....	125,808	330	459	1,312	5,462	5,683	29,556	20,896	62,106	(D)	(D)
	Cost of materials.....do....	77,103	463	651	794	3,685	4,440	19,010	10,687	37,370	(D)	(D)
	Value of shipments.....do....	202,932	794	1,110	2,127	9,148	10,124	48,567	31,584	99,476	(D)	(D)
	Capital expenditures...do....	4,734	(1)	(1)	(1)	(1)	(1)	808	621	2,821	(D)	(D)
	Horsepower.....1,000 hp..	45	(2)	(2)	(2)	1	3	7	4	30	(D)	(D)
	Electricity used...mil. kwh..	67	(3)	(3)	(3)	2	4	12	11	38	(D)	(D)
2531	Public-building furniture:											
	Number of establishments....	292	91	42	40	55	35	18	8	2	1	...
	Total employees.....	14,044	241	306	598	1,795	2,601	2,535	2,568	3,398	(D)	...
	Total payroll.....\$1,000..	52,638	599	992	1,829	6,145	9,667	9,423	9,217	14,764	(D)	...
	Production workers:											
	Number.....	11,556	196	261	516	1,534	2,200	2,168	2,180	2,498	(D)	...
	Man-hours.....1,000..	24,120	371	543	1,047	3,077	4,605	4,547	4,955	4,973	(D)	...
	Wages.....\$1,000..	38,905	462	807	1,473	4,771	7,350	7,280	6,671	10,089	(D)	...
	Value added by mfg....do....	87,446	1,354	1,666	2,722	9,211	14,035	16,347	17,208	24,901	(D)	...
	Cost of materials.....do....	72,098	1,086	1,644	2,848	6,458	12,548	13,775	13,231	20,506	(D)	...
	Value of shipments.....do....	159,545	2,441	3,311	5,570	15,669	26,584	30,122	30,439	45,407	(D)	...
	Capital expenditures...do....	3,781	(1)	(1)	(1)	(1)	973	(1)	576	993	(D)	...
	Horsepower.....1,000 hp..	45	1	1	2	7	9	8	6	11	(D)	...
	Electricity used...mil. kwh..	57	4	2	2	5	8	10	11	15	(D)	...
2532	Professional furniture:											
	Number of establishments....	102	34	15	14	19	7	7	5	...	1	...
	Total employees.....	5,526	74	110	209	651	511	991	2,977	...	(D)	...
	Total payroll.....\$1,000..	23,092	206	371	776	2,467	2,008	4,056	13,205	...	(D)	...
	Production workers:											
	Number.....	4,234	63	93	167	528	435	764	2,181	...	(D)	...
	Man-hours.....1,000..	8,834	110	171	313	1,009	888	1,558	4,782	...	(D)	...
	Wages.....\$1,000..	15,853	159	297	588	1,823	1,538	2,852	8,593	...	(D)	...
	Value added by mfg....do....	38,228	477	621	1,465	3,810	3,622	5,360	22,870	...	(D)	...
	Cost of materials.....do....	27,172	493	475	1,091	3,043	3,131	4,607	14,331	...	(D)	...
	Value of shipments.....do....	65,401	971	1,097	2,556	6,854	6,753	9,967	37,201	...	(D)	...
	Capital expenditures...do....	951	(1)	(1)	(1)	(1)	(1)	(1)	(1)	...	(D)	...
	Horsepower.....1,000 hp..	11	(2)	(2)	1	1	1	3	5	...	(D)	...
	Electricity used...mil. kwh..	17	(3)	(3)	2	2	1	3	2	...	(D)	...
2541	Partitions and fixtures:											
	Number of establishments....	1,626	726	305	237	221	93	30	10	2	2	...
	Total employees.....	33,137	1,709	2,166	3,380	6,890	6,340	4,563	3,294	4,794	(D)	...
	Total payroll.....\$1,000..	142,515	5,372	8,326	14,052	29,789	29,594	20,958	14,185	20,237	(D)	...
	Production workers:											
	Number.....	26,584	1,408	1,807	2,789	5,583	5,353	3,527	2,602	3,512	(D)	...
	Man-hours.....1,000..	53,101	2,682	3,512	5,503	11,324	10,688	7,204	5,408	6,777	(D)	...
	Wages.....\$1,000..	102,071	4,251	6,494	10,755	21,764	21,352	14,324	9,968	13,161	(D)	...
	Value added by mfg....do....	230,712	11,266	13,864	21,497	45,241	43,324	34,017	22,608	38,891	(D)	...
	Cost of materials.....do....	166,231	11,633	12,618	16,841	33,190	28,439	21,662	13,628	28,217	(D)	...
	Value of shipments.....do....	396,974	22,901	26,483	38,338	78,432	71,794	55,680	36,236	67,108	(D)	...
	Capital expenditures...do....	7,031	522	(1)	(1)	1,523	892	882	843	1,413	(D)	...
	Horsepower.....1,000 hp..	84	1	2	7	18	16	13	13	14	(D)	...
	Electricity used...mil. kwh..	111	5	8	12	23	18	15	14	16	(D)	...

See footnotes at end of table.

Table 1.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR MAJOR INDUSTRY GROUPS AND INDUSTRIES: 1954—Con.

Code	Industry group, industry, and item	Total, all estab- lish- ments	Establishments with an average of—									
			1-4 em- ployees	5-9 em- ployees	10-19 em- ployees	20-49 em- ployees	50-99 em- ployees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
2561	Window and door screens:											
	Number of establishments....	215	102	34	31	27	13	7	1	...	...	...
	Total employees.....	4,405	245	249	424	828	957	<u>1,698</u>	(D)	...	...	...
	Total payroll.....\$1,000..	16,887	701	960	1,464	3,047	3,947	<u>6,765</u>	(D)	...	...	...
	Production workers:											
	Number.....	3,632	190	187	342	623	881	<u>1,407</u>	(D)	...	...	...
	Man-hours.....1,000..	7,240	347	367	666	1,166	1,754	<u>2,937</u>	(D)	...	...	...
	Wages.....\$1,000..	11,376	419	511	927	1,749	2,735	<u>5,036</u>	(D)	...	...	...
	Value added by mfg....do....	32,630	1,491	1,548	3,299	6,381	7,582	<u>12,327</u>	(D)	...	...	...
	Cost of materials.....do....	38,246	2,006	2,057	4,035	7,038	10,563	<u>12,545</u>	(D)	...	...	...
	Value of shipments.....do....	70,877	3,498	3,605	7,335	13,420	18,146	<u>24,872</u>	(D)	...	...	...
	Capital expenditures....do....	1,156	(1)	(1)	(1)	(1)	(1)	<u>(1)</u>	(D)	...	...	...
	Horsepower.....1,000 hp..	11	(2)	(2)	1	2	2	<u>6</u>	(D)	...	...	...
	Electricity used..mil. kwh..	13	(3)	1	1	3	2	<u>6</u>	(D)	...	...	...
2562	Window shades:											
	Number of establishments....	196	129	21	12	19	7	3	3	2	...	...
	Total employees.....	4,368	295	140	157	587	528	<u>2,659</u>	(D)	(D)	...	...
	Total payroll.....\$1,000..	15,580	715	402	469	1,934	1,787	<u>10,271</u>	(D)	(D)	...	...
	Production workers:											
	Number.....	3,404	217	101	108	440	413	<u>2,123</u>	(D)	(D)	...	...
	Man-hours.....1,000..	6,746	430	202	201	883	866	<u>4,161</u>	(D)	(D)	...	...
	Wages.....\$1,000..	10,648	544	282	296	1,185	1,197	<u>7,142</u>	(D)	(D)	...	...
	Value added by mfg....do....	29,604	1,697	726	927	3,019	2,937	<u>20,296</u>	(D)	(D)	...	...
	Cost of materials.....do....	34,506	2,547	1,119	1,932	4,900	3,209	<u>20,796</u>	(D)	(D)	...	...
	Value of shipments.....do....	64,110	4,245	1,845	2,859	7,920	6,146	<u>41,093</u>	(D)	(D)	...	...
	Capital expenditures....do....	805	(1)	(1)	(1)	(1)	(1)	<u>(1)</u>	(D)	(D)	...	...
	Horsepower.....1,000 hp..	8	(2)	(2)	1	1	1	<u>5</u>	(D)	(D)	...	...
	Electricity used..mil. kwh..	16	1	(3)	1	1	1	<u>12</u>	(D)	(D)	...	...
2563	Venetian blinds:											
	Number of establishments....	916	535	186	108	71	9	4	2	...	1	...
	Total employees.....	9,416	1,262	1,305	1,514	2,074	594	<u>2,664</u>	(D)	...	(D)	...
	Total payroll.....\$1,000..	27,254	2,809	3,592	4,402	6,463	1,942	<u>8,044</u>	(D)	...	(D)	...
	Production workers:											
	Number.....	7,290	967	963	1,112	1,514	465	<u>2,267</u>	(D)	...	(D)	...
	Man-hours.....1,000..	14,012	1,774	1,784	2,160	2,894	858	<u>4,540</u>	(D)	...	(D)	...
	Wages.....\$1,000..	18,065	1,955	2,274	2,704	3,888	1,237	<u>6,004</u>	(D)	...	(D)	...
	Value added by mfg....do....	47,696	6,930	6,493	7,058	11,197	3,003	<u>13,013</u>	(D)	...	(D)	...
	Cost of materials.....do....	66,455	8,876	8,726	10,585	17,463	4,870	<u>15,934</u>	(D)	...	(D)	...
	Value of shipments.....do....	114,152	15,807	15,220	17,643	28,660	7,873	<u>28,947</u>	(D)	...	(D)	...
	Capital expenditures....do....	1,892	(1)	(1)	(1)	(1)	(1)	<u>557</u>	(D)	...	(D)	...
	Horsepower.....1,000 hp..	12	(2)	1	2	2	1	<u>6</u>	(D)	...	(D)	...
	Electricity used..mil. kwh..	39	1	3	4	6	2	<u>23</u>	(D)	...	(D)	...
2591	Restaurant furniture:											
	Number of establishments....	163	65	28	30	26	8	3	3	...	...	...
	Total employees.....	3,401	167	196	437	803	494	509	792	...	...	...
	Total payroll.....\$1,000..	12,718	559	675	1,514	3,382	1,623	1,711	3,253	...	...	...
	Production workers:											
	Number.....	2,809	140	164	369	663	396	430	643	...	...	...
	Man-hours.....1,000..	5,594	280	317	720	1,313	726	889	1,347	...	...	...
	Wages.....\$1,000..	9,245	401	522	1,156	2,328	1,131	1,320	2,385	...	...	...
	Value added by mfg....do....	18,790	1,122	1,145	2,713	4,681	2,250	2,483	4,394	...	...	...
	Cost of materials.....do....	17,737	1,340	1,159	2,432	4,929	1,871	2,077	3,926	...	...	...
	Value of shipments.....do....	36,751	2,448	2,305	5,145	9,611	4,360	4,560	8,320	...	...	...
	Capital expenditures....do....	559	(1)	(1)	(1)	(1)	(1)	<u>(1)</u>	(1)	...	...	...
	Horsepower.....1,000 hp..	9	(2)	(2)	(2)	1	1	<u>4</u>	3	...	...	...
	Electricity used..mil. kwh..	9	1	1	1	2	2	<u>1</u>	1	...	...	...
2599	Furniture and fixtures, nec:											
	Number of establishments....	52	24	11	6	4	6	1	...	...	...	...
	Total employees.....	810	59	74	85	118	474	(D)	...	...	...	...
	Total payroll.....\$1,000..	2,969	170	254	381	339	<u>1,824</u>	(D)	...	...	...	...
	Production workers:											
	Number.....	703	51	63	71	99	<u>417</u>	(D)	...	...	...	...
	Man-hours.....1,000..	1,373	101	126	153	166	<u>826</u>	(D)	...	...	...	...
	Wages.....\$1,000..	2,240	130	199	238	233	<u>1,439</u>	(D)	...	...	...	...
	Value added by mfg....do....	5,992	291	458	486	444	<u>4,312</u>	(D)	...	...	...	...
	Cost of materials.....do....	5,082	300	488	466	480	<u>3,346</u>	(D)	...	...	...	...
	Value of shipments.....do....	11,075	591	947	952	925	<u>7,659</u>	(D)	...	...	...	...
	Capital expenditures....do....	(1)	(1)	(1)	(1)	(1)	<u>(1)</u>	(D)	...	...	...	...
	Horsepower.....1,000 hp..	2	(2)	(2)	(2)	(2)	<u>3</u>	(D)	...	...	...	...
	Electricity used..mil. kwh..	3	(3)	(3)	1	(3)	<u>5</u>	(D)	...	...	...	...

See footnotes at end of table.

SIZE OF ESTABLISHMENTS

203-37

Table 1.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR MAJOR INDUSTRY GROUPS AND INDUSTRIES: 1954—Con.

Code	Industry group, industry, and item	Total, all estab- lish- ments	Establishments with an average of—									
			1-4 em- ployees	5-9 em- ployees	10-19 em- ployees	20-49 em- ployees	50-99 em- ployees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
26	<u>Pulp, paper and products:</u>											
	Number of establishments....	5,004	698	479	650	1,045	716	857	373	142	40	4
	Total employees.....	530,210	1,798	3,479	9,515	34,336	51,291	134,878	129,131	96,928	55,879	12,939
	Total payroll.....\$1,000..	2,217,420	4,926	11,127	31,588	120,028	200,887	561,652	562,158	425,816	239,883	59,319
	Production workers:											
	Number.....	435,727	1,551	2,917	7,908	28,806	42,603	110,065	106,695	81,076	45,052	9,017
	Man-hours.....1,000..	919,940	2,985	5,632	15,122	57,666	88,695	233,451	230,001	172,501	95,451	18,400
	Wages.....\$1,000..	1,656,720	3,781	8,183	22,271	85,146	144,805	410,096	429,661	335,111	179,231	38,393
	Value added by mfg....do....	4,580,944	12,101	22,484	57,693	211,303	397,032	1,088,380	1,151,548	990,831	504,710	144,826
	Cost of materials.....do....	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)
	Value of shipments.....do....	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)
	Capital expenditures.....do....	532,723	1,730	3,162	4,622	20,617	32,695	171,699	160,849	92,605	40,294	4,408
	Horsepower.....1,000 hp..	8,256	124	5	47	334	558	1,684	2,174	2,162	1,066	102
	Electricity used..mil. kwh..	23,539	666	15	97	492	1,577	4,351	6,747	6,537	2,705	352
2611	<u>Pulp mills:</u>											
	Number of establishments....	252	3	12	25	29	45	49	52	32	5	...
	Total employees.....	57,672	7	98	342	1,028	3,237	8,116	18,013	20,855	5,974	...
	Total payroll.....\$1,000..	256,622	23	420	1,446	4,146	13,594	35,003	82,651	92,998	26,338	...
	Production workers:											
	Number.....	48,896	7	85	304	912	2,847	7,076	15,381	17,461	4,820	...
	Man-hours.....1,000..	105,252	9	173	644	1,953	6,173	15,525	33,667	36,962	10,143	...
	Wages.....\$1,000..	207,188	19	350	1,249	3,445	11,346	29,286	67,326	73,821	20,344	...
	Value added by mfg....do....	704,274	44	1,236	4,660	9,054	32,939	77,754	226,387	269,497	82,700	...
	Cost of materials.....do....	873,017	45	1,250	5,453	11,033	50,063	122,845	275,425	318,233	88,667	...
	Value of shipments.....do....	1,577,291	89	2,487	10,114	20,087	83,002	200,600	501,813	587,731	171,367	...
	Capital expenditures.....do....	148,475	...	(1)	(1)	1,027	2,836	27,547	69,313	40,012	7,448	...
	Horsepower.....1,000 hp..	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)	...
	Electricity used..mil. kwh..	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)	...
2612	<u>Paper and paper board mills:</u>											
	Number of establishments....	589	2	3	10	95	107	194	115	43	18	2
	Total employees.....	142,191	25	(D)	158	3,409	7,976	31,325	39,726	30,576	28,994	(D)
	Total payroll.....\$1,000..	648,972	129	(D)	547	13,984	35,706	141,273	187,222	140,504	129,605	(D)
	Production workers:											
	Number.....	119,859	20	(D)	120	2,979	6,818	26,362	33,493	26,059	24,006	(D)
	Man-hours.....1,000..	265,871	63	(D)	263	6,633	15,296	59,001	75,575	57,460	51,578	(D)
	Wages.....\$1,000..	513,108	96	(D)	419	11,097	28,032	110,476	148,535	114,720	99,729	(D)
	Value added by mfg....do....	1,429,659	158	(D)	903	27,705	91,470	311,032	394,989	333,003	270,396	(D)
	Cost of materials.....do....	2,363,150	246	(D)	1,283	35,774	119,143	497,602	676,009	634,042	398,849	(D)
	Value of shipments.....do....	3,792,810	605	(D)	2,187	63,480	210,613	808,634	1,070,999	967,046	669,246	(D)
	Capital expenditures.....do....	213,050	(1)	(D)	(1)	2,383	6,557	94,339	56,351	33,165	20,152	(D)
	Horsepower.....1,000 hp..	(6)	(6)	(D)	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(D)
	Electricity used..mil. kwh..	(6)	(6)	(D)	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(D)
2613	<u>Building paper and board mills:</u>											
	Number of establishments....	91	2	...	5	26	24	20	10	2	1	1
	Total employees.....	16,391	86	...	(D)	906	1,646	3,268	3,714	6,769	(D)	(D)
	Total payroll.....\$1,000..	69,271	292	...	(D)	3,634	7,141	14,253	15,512	28,438	(D)	(D)
	Production workers:											
	Number.....	14,284	74	...	(D)	802	1,370	2,836	3,130	6,070	(D)	(D)
	Man-hours.....1,000..	30,374	140	...	(D)	1,783	2,908	5,905	6,626	13,010	(D)	(D)
	Wages.....\$1,000..	57,536	228	...	(D)	3,155	5,670	11,821	12,235	24,425	(D)	(D)
	Value added by mfg....do....	155,415	628	...	(D)	8,208	14,170	29,038	37,613	65,756	(D)	(D)
	Cost of materials.....do....	149,884	818	...	(D)	7,504	17,548	40,311	38,972	44,729	(D)	(D)
	Value of shipments.....do....	305,302	1,447	...	(D)	15,713	31,718	69,350	76,587	110,486	(D)	(D)
	Capital expenditures.....do....	9,013	(1)	...	(D)	558	920	2,322	2,038	2,704	(D)	(D)
	Horsepower.....1,000 hp..	350	3	...	(D)	27	45	117	66	92	(D)	(D)
	Electricity used..mil. kwh..	934	9	...	(D)	64	109	228	222	302	(D)	(D)
2641	<u>Paper coating and glazing:</u>											
	Number of establishments....	277	64	39	42	39	29	39	16	6	2	1
	Total employees.....	27,697	174	288	599	1,260	2,072	6,106	5,289	11,906	(D)	(D)
	Total payroll.....\$1,000..	123,991	584	993	2,427	5,641	8,668	27,500	22,544	55,632	(D)	(D)
	Production workers:											
	Number.....	20,017	155	240	469	1,007	1,598	4,817	4,359	7,370	(D)	(D)
	Man-hours.....1,000..	42,091	307	463	961	2,164	3,448	10,350	9,444	17,950	(D)	(D)
	Wages.....\$1,000..	80,101	457	764	1,618	3,641	5,895	19,227	16,783	31,713	(D)	(D)
	Value added by mfg....do....	282,067	1,444	2,371	5,287	9,264	16,318	56,006	44,136	147,237	(D)	(D)
	Cost of materials.....do....	340,124	1,873	4,214	8,126	16,718	31,730	90,996	82,256	104,208	(D)	(D)
	Value of shipments.....do....	622,192	3,318	6,586	13,414	25,983	48,048	147,003	126,392	251,446	(D)	(D)
	Capital expenditures.....do....	15,240	(1)	(1)	525	(1)	1,154	3,542	2,454	6,723	(D)	(D)
	Horsepower.....1,000 hp..	135	(2)	(2)	3	13	10	34	19	36	(D)	(D)
	Electricity used..mil. kwh..	281	1	2	4	10	13	105	47	99	(D)	(D)

See footnotes at end of table.

MANUFACTURES—SUMMARY STATISTICS

Table 1.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR MAJOR INDUSTRY GROUPS AND INDUSTRIES: 1954—Con.

Code	Industry group, industry, and item	Total, all estab- lish- ments	Establishments with an average of—									
			1-4 em- ployees	5-9 em- ployees	10-19 em- ployees	20-49 em- ployees	50-99 em- ployees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
2651	Envelopes:											
	Number of establishments....	196	14	16	22	49	42	41	10	2	...	...
	Total employees.....	15,902	38	112	335	1,588	3,034	6,446	4,347	(D)	...	...
	Total payroll.....\$1,000..	63,044	87	383	1,093	5,683	12,597	26,732	16,468	(D)	...	...
	Production workers:											
	Number.....	13,019	30	96	275	1,262	2,478	5,266	3,610	(D)	...	...
	Man-hours.....1,000..	26,517	64	215	579	2,616	5,154	10,891	6,997	(D)	...	...
	Wages.....\$1,000..	43,516	69	306	819	3,862	8,316	18,129	12,011	(D)	...	...
	Value added by mfg....do....	101,430	188	744	2,091	9,572	21,110	43,596	24,127	(D)	...	...
	Cost of materials.....do....	93,910	231	827	2,214	8,483	20,100	36,603	25,450	(D)	...	...
	Value of shipments.....do....	195,341	420	1,571	4,306	18,056	41,210	80,199	49,577	(D)	...	...
	Capital expenditures....do....	6,942	(1)	(1)	(1)	(1)	3,211	1,428	1,221	(D)	...	...
	Horsepower.....1,000 hp..	21	1	(2)	(2)	2	4	8	6	(D)	...	...
	Electricity used..mil. kwh..	47	2	1	1	5	9	17	12	(D)	...	...
2661	Paper bags:											
	Number of establishments....	381	75	64	39	77	38	54	25	7	2	...
	Total employees.....	33,326	202	476	587	2,435	2,938	9,052	8,942	8,691	(D)	...
	Total payroll.....\$1,000..	121,116	409	1,486	1,960	8,479	11,115	32,149	32,543	32,883	(D)	...
	Production workers:											
	Number.....	27,773	157	382	466	1,929	2,405	7,446	7,517	7,468	(D)	...
	Man-hours.....1,000..	56,227	305	735	896	3,848	4,803	14,819	15,685	15,133	(D)	...
	Wages.....\$1,000..	89,530	361	1,017	1,264	5,329	7,425	23,506	24,511	26,114	(D)	...
	Value added by mfg....do....	211,688	1,459	2,970	3,638	15,871	22,295	57,234	53,674	54,544	(D)	...
	Cost of materials.....do....	411,379	2,502	1,188	6,079	26,479	31,438	110,909	98,101	129,679	(D)	...
	Value of shipments.....do....	6,400	3,961	9,159	9,718	42,350	53,734	168,143	151,775	184,224	(D)	...
	Capital expenditures....do....	18,901	(1)	(1)	(1)	1,247	1,459	4,893	3,973	6,403	(D)	...
	Horsepower.....1,000 hp..	5	1	(2)	1	5	5	15	15	12	(D)	...
	Electricity used..mil. kwh..	129	5	2	3	8	8	32	29	44	(D)	...
2671	Paperboard boxes:											
	Number of establishments....	1,704	170	146	265	456	258	295	85	27	2	...
	Total employees.....	132,964	418	1,054	3,876	15,000	18,284	45,580	28,855	19,893	(D)	...
	Total payroll.....\$1,000..	525,685	1,122	3,028	11,674	47,804	66,721	185,690	122,918	83,725	(D)	...
	Production workers:											
	Number.....	107,762	369	903	3,304	12,725	15,119	36,441	23,042	15,855	(D)	...
	Man-hours.....1,000..	221,054	717	1,665	6,251	24,659	30,264	75,936	42,110	33,450	(D)	...
	Wages.....\$1,000..	371,275	892	2,240	8,590	33,941	45,863	128,827	88,386	62,532	(D)	...
	Value added by mfg....do....	895,298	2,599	5,855	18,965	75,897	111,666	319,467	205,841	155,004	(D)	...
	Cost of materials.....do....	1,284,281	4,116	6,597	22,481	81,696	133,220	472,145	337,590	226,433	(D)	...
	Value of shipments.....do....	2,179,580	1,010	12,453	41,447	157,594	244,886	791,613	543,432	381,437	(D)	...
	Capital expenditures....do....	60,490	(1)	1,942	1,348	9,826	8,314	18,912	13,924	5,755	(D)	...
	Horsepower.....1,000 hp..	384	1	5	5	57	50	119	93	51	(D)	...
	Electricity used..mil. kwh..	308	5	2	2	3	49	170	122	118	(D)	...
2684	Fiber and, twine, drums, etc.:											
	Number of establishments....	184	7	27	29	35	31	23	7	2	1	...
	Total employees.....	12,088	7	194	399	1,181	2,194	3,124	4,020	(D)	(D)	...
	Total payroll.....\$1,000..	44,958	166	1	1,236	4,118	7,342	11,578	19,993	(D)	(D)	...
	Production workers:											
	Number.....	10,460	67	160	335	1,042	1,942	2,714	4,196	(D)	(D)	...
	Man-hours.....1,000..	21,117	127	279	638	2,193	4,100	5,491	8,236	(D)	(D)	...
	Wages.....\$1,000..	34,861	151	414	921	3,500	5,734	8,878	15,473	(D)	(D)	...
	Value added by mfg....do....	74,377	1	1,162	2,133	7,025	14,026	18,917	30,631	(D)	(D)	...
	Cost of materials.....do....	141	460	1,068	1,765	7,731	12,359	18,531	30,504	(D)	(D)	...
	Value of shipments.....do....	146,797	942	2,231	3,898	14,756	20,325	37,448	51,136	(D)	(D)	...
	Capital expenditures....do....	3,408	(1)	(1)	(1)	564	881	685	941	(D)	(D)	...
	Horsepower.....1,000 hp..	42	2	2	1	2	4	10	25	(D)	(D)	...
	Electricity used..mil. kwh..	40	(1)	(3)	1	1	0	13	17	(D)	(D)	...
2691	Die-cut paper and board:											
	Number of establishments....	352	119	55	63	64	24	19	5	3	...	...
	Total employees.....	12,260	311	389	397	1,983	1,679	3,051	1,862	2,085	...	...
	Total payroll.....\$1,000..	47,940	812	1,264	2,960	7,244	6,329	11,975	7,780	9,373	...	...
	Production workers:											
	Number.....	9,933	276	321	747	1,600	1,398	2,293	1,442	1,828	...	...
	Man-hours.....1,000..	19,677	536	630	1,397	2,942	3,108	4,634	2,971	3,455	...	...
	Wages.....\$1,000..	34,633	620	995	2,132	4,372	4,467	3,467	5,644	7,933	...	...
	Value added by mfg....do....	97,964	2,245	2,316	5,353	12,379	10,119	21,767	21,187	22,596	...	...
	Cost of materials.....do....	108,687	2,115	2,305	4,756	11,664	11,173	29,330	16,611	28,849	...	...
	Value of shipments.....do....	206,652	4,361	4,622	10,110	25,844	21,293	51,098	27,878	51,445	...	...
	Capital expenditures....do....	6,424	(1)	(1)	(1)	513	(1)	4,073	505	(1)	...	...
	Horsepower.....1,000 hp..	48	2	1	1	1	5	4	2	2	...	...
	Electricity used..mil. kwh..	41	2	1	2	6	5	10	5	4	...	...

See footnotes at end of table.

SIZE OF ESTABLISHMENTS

203-39

Table 1.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR MAJOR INDUSTRY GROUPS AND INDUSTRIES: 1954—Con.

Code	Industry group, industry, and item	Total, all estab- lish- ments	Establishments with an average of—									2,500 employees and over
			1-4 em- ployees	5-9 em- ployees	10-19 em- ployees	20-49 em- ployees	50-99 em- ployees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	
2693	Wallpaper:											
	Number of establishments....	76	13	16	10	17	9	9	1	1	...	...
	Total employees.....	3,636	37	115	169	563	578	2,172	(D)	(D)	...	...
	Total payroll.....\$1,000..	14,330	139	426	622	2,094	2,257	8,789	(D)	(D)	...	...
	Production workers:											
	Number.....	2,926	30	94	128	461	461	1,750	(D)	(D)	...	...
	Man-hours.....1,000..	6,038	62	197	244	883	941	3,708	(D)	(D)	...	...
	Wages.....\$1,000..	10,325	106	319	416	1,509	1,658	6,314	(D)	(D)	...	...
	Value added by mfg....do....	19,005	220	771	1,209	3,035	3,012	10,757	(D)	(D)	...	...
	Cost of materials.....do....	20,662	168	508	934	2,945	2,901	13,203	(D)	(D)	...	...
	Value of shipments.....do....	39,668	389	1,280	2,144	5,981	5,914	23,960	(D)	(D)	...	...
	Capital expenditures.....do....	526	(1)	(1)	(1)	(1)	(1)	(1)	(D)	(D)	...	...
	Horsepower.....1,000 hp..	10	...	(2)	1	1	2	6	(D)	(D)	...	...
	Electricity used..mil. kwh..	14	(3)	(3)	1	2	2	2	(D)	(D)	...	...
2694	Pulp goods, pressed and molded:											
	Number of establishments....	29	4	2	7	3	5	4	3	1	...	...
	Total employees.....	2,882	10	128	(D)	88	348	2,306	(D)	(D)	...	...
	Total payroll.....\$1,000..	11,630	30	352	(D)	250	1,586	9,407	(D)	(D)	...	...
	Production workers:											
	Number.....	2,401	8	105	(D)	76	288	1,921	(D)	(D)	...	...
	Man-hours.....1,000..	5,018	17	183	(D)	160	589	2,068	(D)	(D)	...	...
	Wages.....\$1,000..	9,111	28	276	(D)	209	1,128	7,469	(D)	(D)	...	...
	Value added by mfg....do....	25,439	14	700	(D)	465	3,289	20,969	(D)	(D)	...	...
	Cost of materials.....do....	16,853	62	349	(D)	258	1,500	14,682	(D)	(D)	...	...
	Value of shipments.....do....	42,293	76	1,051	(D)	724	4,789	35,651	(D)	(D)	...	...
	Capital expenditures.....do....	3,215	(1)	(1)	(D)	(1)	260	2,740	(D)	(D)	...	...
	Horsepower.....1,000 hp..	25	...	(2)	(D)	2	3	20	(D)	(D)	...	...
	Electricity used..mil. kwh..	147	(3)	(2)	(D)	(3)	10	137	(D)	(D)	...	...
2699	Paper and board products, nec:											
	Number of establishments....	873	203	99	133	155	104	110	44	16	9	...
	Total employees.....	73,195	521	715	1,959	4,895	7,305	16,917	15,728	10,611	14,542	...
	Total payroll.....\$1,000..	289,859	1,442	2,356	7,026	16,951	27,836	67,730	63,763	41,813	60,940	...
	Production workers:											
	Number.....	58,393	446	586	1,599	4,004	5,879	13,242	12,340	9,062	11,232	...
	Man-hours.....1,000..	120,699	832	1,191	2,956	7,832	11,911	27,502	25,832	18,851	23,789	...
	Wages.....\$1,000..	205,532	1,062	1,659	4,381	11,300	19,271	45,584	45,180	33,707	43,387	...
	Value added by mfg....do....	584,323	3,363	4,833	12,238	32,828	56,618	140,263	124,656	92,919	116,602	...
	Cost of materials.....do....	843,299	4,401	6,001	14,763	51,030	79,581	204,377	164,096	154,211	164,834	...
	Value of shipments.....do....	1,427,622	7,765	10,835	27,002	82,858	136,200	344,641	288,752	248,131	281,436	...
	Capital expenditures.....do....	47,034	(1)	(1)	907	3,183	6,590	13,178	3,346	4,763	8,397	...
	Horsepower.....1,000 hp..	178	3	1	3	14	19	40	35	24	39	...
	Electricity used..mil. kwh..	512	20	2	6	19	130	92	103	67	73	...
27	Printing and publishing:											
	Number of establishments....	32,531	15,758	6,387	4,331	3,418	1,332	337	262	117	79	10
	Total employees.....	804,386	39,067	44,389	61,258	106,450	92,101	129,365	91,706	82,837	117,690	39,475
	Total payroll.....\$1,000..	3,625,133	106,464	159,569	249,493	464,569	427,739	601,357	410,233	397,816	588,776	219,070
	Production workers:											
	Number.....	499,666	26,113	31,676	43,245	71,997	60,069	90,395	55,739	44,034	62,959	22,889
	Man-hours.....1,000..	961,465	49,292	61,266	83,416	139,977	116,522	156,406	111,211	81,896	118,845	42,580
	Wages.....\$1,000..	2,115,344	69,176	108,445	164,356	287,722	258,253	352,054	244,743	207,304	302,776	120,463
	Value added by mfg....do....	6,264,558	250,952	280,851	405,826	726,106	679,035	1,055,544	737,664	692,923	1,037,785	397,824
	Cost of materials.....do....	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)
	Value of shipments.....do....	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)
	Capital expenditures.....do....	236,897	17,545	15,306	16,537	28,333	26,268	36,645	27,680	1,...	...	13,949
	Horsepower.....1,000 hp..	975	7	13	43	104	89	165	109	180	168	...
	Electricity used..mil. kwh..	1,685	20	71	162	196	178	261	198	197	260	...
2711	Newspapers:											
	Number of establishments....	8,646	3,920	2,014	1,075	847	351	233	106	36	39	5
	Total employees.....	281,799	10,336	13,966	15,002	26,339	24,269	36,223	36,849	41,000	56,670	19,141
	Total payroll.....\$1,000..	1,262,793	24,456	41,125	50,157	98,542	101,003	159,892	164,395	200,952	314,797	107,471
	Production workers:											
	Number.....	148,941	7,602	10,443	10,079	15,255	12,177	17,554	17,713	18,895	...	10,322
	Man-hours.....1,000..	281,198	14,076	20,397	19,876	30,506	23,733	32,630	37,049	34,116	51,562	17,250
	Wages.....\$1,000..	667,058	18,355	31,351	23,258	56,075	51,294	82,097	84,329	96,292	158,102	55,902
	Value added by mfg....do....	2,144,225	53,663	70,957	82,290	161,685	168,952	280,407	297,446	347,195	491,533	188,177
	Cost of materials.....do....	946,815	28,193	27,422	24,549	39,519	39,244	78,773	117,667	180,929	296,111	114,400
	Value of shipments.....do....	3,091,027	81,845	98,379	106,839	201,204	208,196	359,181	415,115	530,025	787,649	302,591
	Capital expenditures.....do....	75,536	3,866	4,176	3,724	6,442	7,160	9,507	10,475	10,963	13,300	5,963
	Horsepower.....1,000 hp..	420	(2)	4	12	31	27	53	48	94	94	...
	Electricity used..mil. kwh..	768	5	41	67	64	69	53	111	119	124	71

See footnotes at end of table.

Table 1.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR MAJOR INDUSTRY GROUPS AND INDUSTRIES: 1954—Con.

Code	Industry group, industry, and item	Total, all estab- lish- ments	Establishments with an average of—									
			1-4 em- ployees	5-9 em- ployees	10-19 em- ployees	20-49 em- ployees	50-99 em- ployees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
2721	Periodicals:											
	Number of establishments....	2,045	1,069	377	229	193	77	64	18	9	7	2
	Total employees.....	62,428	2,651	2,629	3,180	6,126	5,330	10,070	6,478	6,581	19,379	(D)
	Total payroll.....\$1,000..	312,695	8,684	11,901	15,199	28,786	24,998	51,250	32,552	31,185	108,137	(D)
	Production workers:											
	Number.....	16,348	72	235	493	1,176	1,542	2,819	2,184	1,282	6,541	(D)
	Man-hours.....1,000..	29,614	104	483	896	1,715	2,121	5,393	4,280	2,352	12,267	(D)
	Wages.....\$1,000..	68,218	181	958	1,752	3,111	4,437	12,231	8,981	5,156	31,408	(D)
	Value added by mfg....do....	795,543	22,582	24,991	32,899	61,843	52,167	145,616	83,886	60,346	311,209	(D)
	Cost of materials.....do....	645,416	27,894	23,907	21,743	43,317	40,344	99,629	65,750	82,931	239,896	(D)
	Value of shipments.....do....	1,440,961	50,478	48,898	54,643	105,161	92,512	245,246	149,636	143,278	551,107	(D)
	Capital expenditures.....do....	14,542	(1)	(1)	(1)	1,036	1,140	1,400	4,226	811	4,979	(D)
	Horsepower.....1,000 hp..	45	(2)	(2)	(2)	1	2	7	4	3	28	(D)
	Electricity used..mil. kwh..	66	(3)	(3)	3	2	3	10	7	8	33	(D)
2731	Books; publishing and printing:											
	Number of establishments....	814	391	146	80	76	52	42	13	9	5	...
	Total employees.....	34,704	911	1,012	1,145	2,374	3,687	6,493	4,382	6,314	8,382	...
	Total payroll.....\$1,000..	144,757	2,774	3,986	4,869	9,827	16,935	30,177	16,619	29,628	29,939	...
	Production workers:											
	Number.....	8,802	9	88	177	569	846	1,279	2,161	1,177	2,494	...
	Man-hours.....1,000..	17,098	15	166	278	866	1,690	2,522	4,381	2,223	4,954	...
	Wages.....\$1,000..	29,250	22	303	413	1,608	2,689	4,149	6,019	4,689	9,356	...
	Value added by mfg....do....	394,702	8,790	11,551	12,817	25,562	40,756	86,035	45,055	92,638	71,494	...
	Cost of materials.....do....	270,529	14,885	10,824	9,634	19,518	32,532	68,650	25,777	42,062	46,643	...
	Value of shipments.....do....	665,232	23,676	22,376	22,452	45,081	73,289	154,686	70,833	134,700	118,138	...
	Capital expenditures.....do....	7,558	(1)	(1)	(1)	1,192	1,715	1,004	1,582	1,013	1,013	...
	Horsepower.....1,000 hp..	10	...	(2)	(2)	(2)	1	1	1	1	6	...
	Electricity used..mil. kwh..	24	...	(3)	(3)	1	2	1	3	2	15	...
2732	Book printing:											
	Number of establishments....	598	258	98	89	77	34	26	5	8	3	...
	Total employees.....	22,695	690	676	1,269	2,440	2,268	4,115	1,816	5,662	3,757	...
	Total payroll.....\$1,000..	100,439	2,019	2,795	5,656	11,691	10,651	18,481	8,431	23,730	16,983	...
	Production workers:											
	Number.....	19,090	526	522	1,001	1,976	1,859	3,467	1,583	4,886	3,266	...
	Man-hours.....1,000..	37,927	1,038	1,072	1,967	3,944	3,703	6,786	3,122	9,129	7,162	...
	Wages.....\$1,000..	78,356	1,434	1,838	3,889	8,378	7,743	14,490	6,841	19,778	13,962	...
	Value added by mfg....do....	144,692	5,115	5,739	8,363	16,778	15,432	25,780	12,238	30,578	24,666	...
	Cost of materials.....do....	76,635	4,274	3,744	5,276	10,215	8,652	12,755	7,039	15,405	9,273	...
	Value of shipments.....do....	221,328	9,390	9,483	13,639	26,993	24,085	38,536	19,277	45,983	33,939	...
	Capital expenditures.....do....	7,243	(1)	(1)	(1)	1,475	(1)	950	662	1,849	955	...
	Horsepower.....1,000 hp..	25	(2)	(2)	1	3	3	5	4	7	2	...
	Electricity used..mil. kwh..	73	2	1	8	10	9	11	9	15	8	...
2741	Miscellaneous publishing:											
	Number of establishments....	946	550	163	83	85	28	24	8	3	2	...
	Total employees.....	18,378	1,275	1,146	1,199	2,576	2,107	3,505	2,625	3,942	(D)	...
	Total payroll.....\$1,000..	73,174	3,707	3,865	4,501	9,440	8,815	13,564	10,585	18,695	(D)	...
	Production workers:											
	Number.....	5,271	41	151	368	830	839	1,461	649	929	(D)	...
	Man-hours.....1,000..	9,570	40	251	648	1,245	1,399	2,811	1,288	1,884	(D)	...
	Wages.....\$1,000..	24,090	50	422	1,130	2,188	3,001	5,749	7,441	4,105	(D)	...
	Value added by mfg....do....	149,310	11,635	8,042	9,230	18,212	15,975	24,712	28,423	33,078	(D)	...
	Cost of materials.....do....	81,931	7,986	5,218	4,494	7,328	5,726	11,182	28,300	11,693	(D)	...
	Value of shipments.....do....	231,242	19,623	13,261	13,725	25,540	21,702	35,895	56,724	44,770	(D)	...
	Capital expenditures.....do....	3,270	(1)	(1)	(1)	658	557	732	335	(1)	(D)	...
	Horsepower.....1,000 hp..	5	(2)	(2)	(2)	1	(2)	2	2	(2)	(D)	...
	Electricity used..mil. kwh..	14	(3)	(3)	(3)	1	1	6	3	3	(D)	...
2751	Commercial printing:											
	Number of establishments....	12,073	6,640	2,294	1,468	1,043	353	193	51	14	14	3
	Total employees.....	200,233	15,793	16,188	20,577	32,075	24,303	30,493	17,968	9,953	32,879	(D)
	Total payroll.....\$1,000..	888,659	42,731	58,979	84,318	139,438	113,622	140,339	85,663	52,441	171,125	(D)
	Production workers:											
	Number.....	157,567	11,981	12,747	16,099	24,977	19,096	24,125	14,664	8,641	25,233	(D)
	Man-hours.....1,000..	305,988	22,884	24,532	30,759	47,991	37,344	47,369	28,191	16,300	70,612	(D)
	Wages.....\$1,000..	650,828	32,361	45,157	60,566	96,779	80,918	100,959	65,997	44,473	123,614	(D)
	Value added by mfg....do....	1,357,820	98,059	97,492	131,098	204,456	164,994	215,269	124,377	71,369	250,703	(D)
	Cost of materials.....do....	844,511	77,036	63,538	79,116	118,355	98,710	141,110	79,195	50,540	136,908	(D)
	Value of shipments.....do....	2,202,074	175,096	160,908	210,213	322,815	263,704	356,244	203,573	121,909	387,612	(D)
	Capital expenditures.....do....	65,822	7,582	5,989	5,855	8,371	6,215	10,893	3,884	4,279	12,751	(D)
	Horsepower.....1,000 hp..	300	2	8	21	42	34	48	28	44	73	(D)
	Electricity used..mil. kwh..	375	2	20	43	48	46	48	41	35	92	(D)

See footnotes at end of table.

SIZE OF ESTABLISHMENTS

203-41

Table 1.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR MAJOR INDUSTRY GROUPS AND INDUSTRIES: 1954—Con.

Code	Industry group, industry, and item	Total, all estab- lish- ments	Establishments with an average of—									
			1-4 em- ployees	5-9 em- ployees	10-19 em- ployees	20-49 em- ployees	50-99 em- ployees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
2761	<u>Lithographing:</u>											
	Number of establishments....	2,924	1,141	512	503	413	185	127	31	11	1	...
	Total employees.....	77,717	2,824	3,695	7,307	13,072	12,876	19,247	10,774	7,919	(D)	...
	Total payroll.....\$1,000..	376,571	8,299	15,166	33,543	63,878	65,630	97,149	53,451	39,451	(D)	...
	Production workers:											
	Number.....	60,178	2,193	2,918	5,710	10,206	9,902	15,088	8,309	5,849	(D)	...
	Man-hours.....1,000..	117,968	4,258	5,724	11,287	19,619	19,749	29,603	16,464	11,261	(D)	...
	Wages.....\$1,000..	261,249	6,298	11,328	24,273	44,095	44,828	67,609	36,863	25,952	(D)	...
	Value added by mfg....do....	578,883	20,076	26,333	52,807	95,729	99,144	145,527	81,016	58,249	(D)	...
	Cost of materials.....do....	383,587	16,562	18,084	32,825	61,736	64,217	106,445	50,643	33,073	(D)	...
	Value of shipments.....do....	962,552	36,725	44,417	85,631	157,466	163,360	251,976	131,654	91,322	(D)	...
	Capital expenditures....do....	34,854	2,592	2,487	2,914	6,207	6,161	7,705	5,116	1,669	(D)	...
	Horsepower.....1,000 hp..	118	5	1	5	19	16	38	13	21	(D)	...
	Electricity used..mil. kwh..	186	4	2	27	35	23	73	11	11	(D)	...
2771	<u>Greeting cards:</u>											
	Number of establishments....	294	119	40	35	33	24	27	10	...	6	...
	Total employees.....	21,347	264	291	512	1,105	1,795	4,264	3,592	...	9,522	...
	Total payroll.....\$1,000..	70,434	595	850	1,706	3,539	6,245	13,439	10,575	...	33,483	...
	Production workers:											
	Number.....	15,297	199	222	400	877	1,404	3,372	2,887	...	5,934	...
	Man-hours.....1,000..	28,624	360	406	700	1,602	2,574	6,291	5,371	...	11,318	...
	Wages.....\$1,000..	41,960	419	606	1,197	2,286	4,262	9,182	7,150	...	16,856	...
	Value added by mfg....do....	131,343	1,947	1,523	3,506	5,951	10,925	25,993	25,749	...	55,747	...
	Cost of materials.....do....	77,561	2,243	1,411	2,718	7,178	7,132	18,042	15,885	...	22,951	...
	Value of shipments.....do....	208,905	4,190	2,935	6,224	13,130	18,058	44,035	41,634	...	78,698	...
	Capital expenditures....do....	8,809	(1)	(1)	(1)	(1)	(1)	979	563	...	6,687	...
	Horsepower.....1,000 hp..	8	(2)	(2)	(2)	1	1	2	1	...	3	...
	Electricity used..mil. kwh..	30	7	(3)	(3)	1	2	5	3	...	12	...
2781	<u>Bookbinding:</u>											
	Number of establishments....	730	274	124	137	127	38	21	6	2	1	...
	Total employees.....	17,178	730	881	1,941	3,927	2,675	3,103	1,834	2,084	(D)	...
	Total payroll.....\$1,000..	58,966	1,689	2,626	6,334	13,321	9,322	10,274	7,250	8,148	(D)	...
	Production workers:											
	Number.....	15,453	648	805	1,746	3,481	2,394	2,782	1,668	1,927	(D)	...
	Man-hours.....1,000..	29,368	1,228	1,503	3,304	6,696	4,498	5,168	3,164	3,804	(D)	...
	Wages.....\$1,000..	48,450	1,430	2,291	5,273	10,667	7,474	8,382	6,218	6,713	(D)	...
	Value added by mfg....do....	84,741	3,632	4,807	9,738	19,133	13,241	14,958	9,603	9,624	(D)	...
	Cost of materials.....do....	27,228	1,250	1,231	2,210	3,813	3,101	5,788	3,665	6,167	(D)	...
	Value of shipments.....do....	111,970	4,883	6,038	11,949	22,946	16,343	20,746	13,268	15,794	(D)	...
	Capital expenditures....do....	3,666	(1)	(1)	(1)	754	635	(1)	(1)	(1)	(D)	...
	Horsepower.....1,000 hp..	12	(2)	(2)	3	2	2	3	1	1	(D)	...
	Electricity used..mil. kwh..	28	(3)	(3)	4	1	2	18	1	2	(D)	...
2782	<u>Blankbooks and paper ruling:</u>											
	Number of establishments....	334	165	48	49	35	19	10	7	1	...	...
	Total employees.....	8,624	377	334	704	1,157	1,285	1,561	3,204	(D)	...	...
	Total payroll.....\$1,000..	29,831	917	978	2,217	3,952	4,172	5,635	11,957	(D)	...	...
	Production workers:											
	Number.....	6,952	334	301	607	958	1,063	1,219	2,467	(D)	...	...
	Man-hours.....1,000..	13,425	606	553	1,126	1,786	2,044	2,388	4,919	(D)	...	...
	Wages.....\$1,000..	20,760	741	799	1,707	2,652	2,768	3,839	8,251	(D)	...	...
	Value added by mfg....do....	47,910	2,083	1,561	3,675	6,132	7,150	8,622	18,685	(D)	...	...
	Cost of materials.....do....	31,275	1,316	788	1,840	3,112	4,002	6,346	13,869	(D)	...	...
	Value of shipments.....do....	79,185	3,399	2,350	5,516	9,244	11,153	14,968	32,553	(D)	...	...
	Capital expenditures....do....	1,802	(1)	(1)	(1)	(1)	(1)	(1)	878	(D)	...	...
	Horsepower.....1,000 hp..	14	(2)	(2)	1	3	1	4	5	(D)	...	...
	Electricity used..mil. kwh..	11	(3)	(3)	1	1	1	2	6	(D)	...	...
2783	<u>Loose-leaf binders and devices:</u>											
	Number of establishments....	154	58	18	28	20	11	12	3	4	...	...
	Total employees.....	8,199	141	117	381	610	775	1,988	1,149	3,036	...	...
	Total payroll.....\$1,000..	30,948	393	379	1,277	2,246	2,896	8,289	3,776	11,691	...	...
	Production workers:											
	Number.....	6,329	116	101	307	490	628	1,308	989	2,388	...	...
	Man-hours.....1,000..	12,659	225	192	579	934	1,285	2,636	2,042	4,763	...	...
	Wages.....\$1,000..	20,788	274	291	920	1,508	1,933	4,318	3,087	8,453	...	...
	Value added by mfg....do....	49,651	919	641	2,205	3,500	5,169	11,931	5,928	19,356	...	...
	Cost of materials.....do....	29,018	625	516	1,571	2,432	3,517	5,951	4,546	9,858	...	...
	Value of shipments.....do....	78,670	1,544	1,157	3,777	5,932	8,687	17,882	10,474	29,215	...	...
	Capital expenditures....do....	1,285	(1)	(1)	(1)	(1)	(1)	(1)	(1)	637	...	...
	Horsepower.....1,000 hp..	16	(2)	(2)	(2)	(2)	1	2	2	11	...	...
	Electricity used..mil. kwh..	20	(3)	(3)	(3)	1	1	11	2	5	...	...

See footnotes at end of table.

Table 1.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR MAJOR INDUSTRY GROUPS AND INDUSTRIES: 1954—Con.

Code	Industry group, industry, and item	Total, all estab- lish- ments	Establishments with an average of—									
			1-4 em- ployees	5-9 em- ployees	10-19 em- ployees	20-49 em- ployees	50-99 em- ployees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
2789	<u>Miscellaneous bookbinding work:</u>											
	Number of establishments....	201	73	41	32	44	8	3	...	...	...	...
	Total employees.....	3,303	183	289	455	1,317	581	476	...	...	...	...
	Total payroll.....\$1,000..	10,925	414	822	1,601	4,347	1,819	1,921	...	...	...	...
	Production workers:											
	Number.....	2,910	161	261	408	1,169	515	394	...	...	...	...
	Man-hours.....1,000..	5,671	290	502	799	2,276	974	828	...	...	...	...
	Wages.....\$1,000..	8,244	340	720	1,284	3,309	1,311	1,278	...	...	...	...
	Value added by mfg....do....	16,968	881	1,572	2,487	6,646	2,735	2,645	...	...	...	...
	Cost of materials.....do....	5,401	381	434	533	1,813	911	1,327	...	...	...	...
	Value of shipments.....do....	22,370	1,262	2,007	3,020	8,460	3,647	3,972	...	...	...	...
	Capital expenditures...do....	703	(1)	(1)	(1)	(1)	(1)	(1)	...	...	...	...
	Horsepower.....1,000 hp..	2	(2)	(2)	(2)	1	1	(1)	...	...	...	...
	Electricity used..mil. kwh..	3	(3)	(3)	(3)	1	1	1	...	...	...	...
2791	<u>Typesetting:</u>											
	Number of establishments....	1,081	515	201	177	128	44	16	...	...	...	...
	Total employees.....	14,550	1,348	1,449	2,546	4,105	2,986	2,115	...	...	...	...
	Total payroll.....\$1,000..	74,558	4,685	6,572	12,399	22,271	15,765	12,865	...	...	...	...
	Production workers:											
	Number.....	11,744	1,092	1,200	2,103	3,296	2,321	1,731	...	...	...	...
	Man-hours.....1,000..	23,082	1,967	2,209	3,964	7,221	4,478	3,240	...	...	...	...
	Wages.....\$1,000..	57,492	3,602	5,285	10,118	17,323	11,748	9,415	...	...	...	...
	Value added by mfg....do....	106,909	9,975	10,290	18,863	29,933	21,223	16,624	...	...	...	...
	Cost of materials.....do....	14,481	2,697	1,778	2,765	3,437	2,182	1,619	...	...	...	...
	Value of shipments.....do....	121,390	12,673	12,068	21,629	33,370	23,405	18,244	...	...	...	...
	Capital expenditures...do....	4,267	954	595	775	852	591	(1)	...	...	...	...
	Horsepower ⁵.....1,000 hp..	...	...	...	...	...	...	...	...	...	...	...
	Electricity used..mil. kwh..	19	(3)	2	3	7	4	3	...	...	...	...
2792	<u>Engraving and plate printing:</u>											
	Number of establishments....	567	277	126	95	46	15	6	1	...	1	...
	Total employees.....	7,510	721	868	1,401	1,402	994	2,121	(D)	...	(D)	...
	Total payroll.....\$1,000..	29,412	2,065	3,235	5,361	5,599	4,088	9,062	(D)	...	(D)	...
	Production workers:											
	Number.....	6,080	531	678	1,132	1,172	798	1,767	(D)	...	(D)	...
	Man-hours.....1,000..	11,963	1,343	1,346	2,268	2,300	1,484	3,520	(D)	...	(D)	...
	Wages.....\$1,000..	21,739	1,327	2,249	3,839	3,919	2,765	7,637	(D)	...	(D)	...
	Value added by mfg....do....	43,385	4,778	5,343	7,412	7,750	5,502	12,599	(D)	...	(D)	...
	Cost of materials.....do....	16,698	2,749	2,080	2,875	2,371	1,821	4,799	(D)	...	(D)	...
	Value of shipments.....do....	60,084	7,527	7,424	10,288	10,121	7,323	17,399	(D)	...	(D)	...
	Capital expenditures...do....	1,702	(1)	(1)	(1)	(1)	(1)	(1)	(D)	...	(D)	...
	Horsepower ⁵.....1,000 hp..	...	...	...	...	...	...	...	...	...	...	...
	Electricity used..mil. kwh..	7	(3)	(3)	1	1	1	4	(D)	...	(D)	...
2793	<u>Photoengraving:</u>											
	Number of establishments....	891	262	161	201	182	63	21	1	...	...	...
	Total employees.....	17,711	711	1,167	2,905	5,594	4,061	3,270	(D)	...	...	...
	Total payroll.....\$1,000..	112,575	2,646	5,413	16,221	34,826	29,017	24,450	(D)	...	...	...
	Production workers:											
	Number.....	12,778	527	871	2,069	3,927	3,060	2,322	(D)	...	...	...
	Man-hours.....1,000..	25,575	1,001	1,689	3,973	8,204	6,181	4,524	(D)	...	...	...
	Wages.....\$1,000..	82,634	2,029	4,218	11,820	24,835	21,776	17,953	(D)	...	...	...
	Value added by mfg....do....	148,876	5,799	8,694	22,580	44,632	36,840	30,328	(D)	...	...	...
	Cost of materials.....do....	24,163	1,943	2,012	4,335	7,349	4,680	3,842	(D)	...	...	...
	Value of shipments.....do....	173,040	7,743	10,707	26,916	51,981	41,521	34,170	(D)	...	...	...
	Capital expenditures...do.g..	3,986	(1)	(1)	691	932	880	739	(D)	...	...	...
	Horsepower ⁵.....1,000 hp..	...	...	...	...	...	...	...	...	...	...	...
	Electricity used..mil. kwh..	25	(3)	1	3	10	6	5	(D)	...	...	...
2794	<u>Electrotyping and stereotyping:</u>											
	Number of establishments....	233	46	24	50	69	30	12	2	...	...	...
	Total employees.....	8,005	112	181	734	2,231	2,109	2,637	(D)	...	...	...
	Total payroll.....\$1,000..	48,391	396	878	4,134	12,866	12,761	17,355	(D)	...	...	...
	Production workers:											
	Number.....	5,917	81	133	546	1,638	1,625	1,892	(D)	...	...	...
	Man-hours.....1,000..	11,728	157	241	992	3,072	3,265	4,000	(D)	...	...	...
	Wages.....\$1,000..	34,220	313	629	2,917	8,989	9,306	12,064	(D)	...	...	...
	Value added by mfg....do....	69,594	1,018	1,315	5,856	18,164	18,830	24,408	(D)	...	...	...
	Cost of materials.....do....	16,299	364	396	1,274	4,276	5,847	4,139	(D)	...	...	...
	Value of shipments.....do....	85,894	1,383	1,712	7,131	22,441	24,677	28,549	(D)	...	...	...
	Capital expenditures...do....	1,845	(1)	(1)	(1)	560	(1)	638	(D)	...	...	...
	Horsepower ⁵.....1,000 hp..	...	...	...	...	...	...	...	...	...	...	...
	Electricity used..mil. kwh..	36	(3)	(3)	2	12	7	15	(D)	...	...	...

See footnotes at end of table.

Table 1.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR MAJOR INDUSTRY GROUPS AND INDUSTRIES: 1954—Con.

Code	Industry group, industry, and item	Total, all estab- lish- ments	Establishments with an average of—									
			1-4 em- ployees	5-9 em- ployees	10-19 em- ployees	20-49 em- ployees	50-99 em- ployees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
28	Chemicals and products:											
	Number of establishments....	11,075	3,671	1,782	1,662	1,849	969	648	255	116	86	37
	Total employees.....	739,389	9,157	12,766	23,763	59,342	66,957	100,120	89,544	84,058	134,818	158,726
	Total payroll.....\$1,000..	3,407,199	27,073	48,309	92,893	238,939	287,100	438,239	416,704	401,400	647,240	809,218
	Production workers:											
	Number.....	501,272	6,784	9,033	16,357	41,583	46,842	67,553	61,201	56,703	92,564	102,543
	Man-hours.....1,000..	1,016,053	13,126	18,160	32,244	85,370	97,121	138,711	125,134	114,159	186,618	205,295
	Wages.....\$1,000..	2,005,627	17,720	28,230	50,174	131,606	159,282	254,801	252,593	242,067	405,577	463,463
	Value added by mfg....do....	9,443,629	74,967	116,558	218,841	596,338	726,145	1,240,160	1,443,737	1,308,308	1,824,081	1,894,391
	Cost of materials.....do....	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)
	Value of shipments.....do....	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)
	Capital expenditures..do....	926,613	5,798	8,190	26,633	54,215	55,921	204,036	132,390	85,245	214,529	139,552
	Horsepower.....1,000 hp..	14,329	697	67	198	679	782	1,547	1,414	1,642	3,978	3,325
	Electricity used..mil. kwh..	61,166	1,006	126	246	1,048	1,659	4,820	6,791	5,757	19,645	20,068
2811	Sulfuric acid:											
	Number of establishments....	47	...	1	4	21	7	12	1	1	...	...
	Total employees.....	3,805	...	70	(D)	624	438	2,671	(D)	(D)	...	...
	Total payroll.....\$1,000..	16,730	...	346	(D)	2,926	1,911	11,545	(D)	(D)	...	...
	Production workers:											
	Number.....	2,927	...	57	(D)	486	292	2,090	(D)	(D)	...	...
	Man-hours.....1,000..	5,922	...	109	(D)	1,009	574	4,228	(D)	(D)	...	...
	Wages.....\$1,000..	12,119	...	266	(D)	2,119	1,133	8,599	(D)	(D)	...	...
	Value added by mfg....do....	66,175	...	1,660	(D)	14,832	6,806	42,875	(D)	(D)	...	...
	Cost of materials.....do....	73,094	...	2,064	(D)	17,547	4,743	48,738	(D)	(D)	...	...
	Value of shipments.....do....	139,270	...	3,724	(D)	32,380	11,550	91,615	(D)	(D)	...	...
	Capital expenditures..do....	10,803	...	(1)	(D)	3,041	2,403	5,202	(D)	(D)	...	...
	Horsepower.....1,000 hp..	136	...	6	(D)	41	11	78	(D)	(D)	...	...
	Electricity used..mil. kwh..	281	...	6	(D)	55	15	205	(D)	(D)	...	...
2812	Alkalies and chlorine:											
	Number of establishments....	29	...	...	...	...	4	9	4	5	5	2
	Total employees.....	20,440	...	...	...	...	1,681	(D)	1,471	3,720	13,567	(D)
	Total payroll.....\$1,000..	96,047	...	...	...	...	7,495	(D)	6,851	18,510	63,190	(D)
	Production workers:											
	Number.....	15,198	...	...	...	...	1,235	(D)	1,042	2,553	10,367	(D)
	Man-hours.....1,000..	31,393	...	...	...	...	2,548	(D)	2,134	5,127	21,583	(D)
	Wages.....\$1,000..	67,890	...	...	...	...	5,290	(D)	4,652	12,024	45,923	(D)
	Value added by mfg....do....	251,033	...	...	...	...	22,302	(D)	34,723	60,354	133,653	(D)
	Cost of materials.....do....	148,875	...	...	...	...	16,259	(D)	15,839	27,086	89,689	(D)
	Value of shipments.....do....	399,908	...	...	...	...	38,561	(D)	50,563	87,440	223,343	(D)
	Capital expenditures..do....	34,728	...	...	...	...	9,459	(D)	2,647	6,928	15,693	(D)
	Horsepower.....1,000 hp..	988	...	...	...	...	52	(D)	226	249	461	(D)
	Electricity used..mil. kwh..	6,206	...	...	...	...	1,092	(D)	1,292	1,471	2,351	(D)
2819	Inorganic chemicals, nec:											
	Number of establishments....	442	104	41	59	78	41	54	28	18	14	5
	Total employees.....	97,006	279	291	880	2,425	2,856	8,847	10,187	12,971	19,651	38,616
	Total payroll.....\$1,000..	480,798	881	1,098	3,539	10,461	12,948	40,857	45,596	63,470	93,531	208,414
	Production workers:											
	Number.....	59,418	207	218	648	1,945	2,080	6,690	7,635	9,285	12,970	17,738
	Man-hours.....1,000..	121,099	382	419	1,215	3,741	4,459	13,650	15,333	19,305	26,914	35,677
	Wages.....\$1,000..	266,260	583	773	2,167	6,904	8,595	28,340	31,071	43,600	58,257	85,966
	Value added by mfg....do....	1,069,335	2,889	3,282	10,101	34,385	38,321	105,699	127,593	204,191	193,860	349,011
	Cost of materials.....do....	790,037	6,859	5,140	14,932	48,329	39,557	138,979	113,024	158,516	196,107	68,591
	Value of shipments.....do....	1,859,372	9,749	8,423	25,033	82,714	77,878	244,679	240,618	362,707	389,967	417,602
	Capital expenditures..do....	173,741	(1)	611	3,424	2,918	2,961	55,933	19,459	25,828	62,216	...
	Horsepower.....1,000 hp..	5,240	588	3	6	25	55	348	296	598	1,725	1,596
	Electricity used..mil. kwh..	34,928	457	15	12	154	395	1,795	2,804	2,650	14,212	12,434
2821	Cyclic (coal tar) crudes:											
	Number of establishments....	43	2	4	11	14	8	3	1	...	...	...
	Total employees.....	1,925	32	(D)	163	465	1,263	(D)	(D)	...	...	...
	Total payroll.....\$1,000..	8,246	133	(D)	728	2,017	5,367	(D)	(D)	...	...	...
	Production workers:											
	Number.....	1,488	22	(D)	127	327	1,010	(D)	(D)	...	...	...
	Man-hours.....1,000..	2,829	37	(D)	251	604	1,934	(D)	(D)	...	...	...
	Wages.....\$1,000..	5,620	92	(D)	471	1,162	3,894	(D)	(D)	...	...	...
	Value added by mfg....do....	22,179	564	(D)	2,385	7,040	12,189	(D)	(D)	...	...	...
	Cost of materials.....do....	54,974	2,051	(D)	5,988	13,232	33,701	(D)	(D)	...	...	...
	Value of shipments.....do....	77,154	2,617	(D)	8,373	20,272	45,891	(D)	(D)	...	...	...
	Capital expenditures..do....	2,199	(1)	(D)	(1)	(1)	1,841	(D)	(D)	...	...	...
	Horsepower.....1,000 hp..	16	(2)	(D)	1	4	11	(D)	(D)	...	...	...
	Electricity used..mil. kwh..	24	1	(D)	1	5	17	(D)	(D)	...	...	...

See footnotes at end of table.

MANUFACTURES—SUMMARY STATISTICS

Table 1.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR MAJOR INDUSTRY GROUPS AND INDUSTRIES: 1954—Con.

Code	Industry group, industry, and item	Total, all estab- lish- ments	Establishments with an average of—									
			1-4 em- ployees	5-9 em- ployees	10-19 em- ployees	20-49 em- ployees	50-99 em- ployees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
2822	Intermediates and organic colors:											
	Number of establishments....	107	7	11	13	20	19	12	10	7	6	2
	Total employees.....	32,748	25	82	175	659	1,424	1,957	3,034	5,104	20,285	(D)
	Total payroll.....\$1,000..	165,511	85	448	903	3,250	6,954	8,979	14,257	24,829	105,804	(D)
	Production workers:											
	Number.....	22,297	18	53	117	484	1,052	1,516	2,261	3,628	13,166	(D)
	Man-hours.....1,000..	44,142	33	106	230	924	2,121	3,098	4,547	7,252	25,829	(D)
	Wages.....\$1,000..	99,416	56	191	423	1,691	4,259	6,158	9,275	15,918	61,443	(D)
	Value added by mfg....do....	362,305	187	895	1,611	6,158	15,830	24,074	27,583	49,858	236,106	(D)
	Cost of materials.....do....	353,296	226	1,245	1,644	10,643	22,476	28,384	46,039	61,356	181,281	(D)
	Value of shipments.....do....	715,602	413	2,141	3,256	16,801	38,206	52,458	73,622	111,215	417,388	(D)
	Capital expenditures..do....	72,067	(1)	(1)	(1)	(1)	3,241	6,437	6,552	6,952	48,399	(D)
	Horsepower.....1,000 hp..	630	1	(2)	2	4	22	23	36	73	469	(D)
	Electricity used..mil. kwh..	1,654	9	1	1	8	50	50	142	104	1,289	(D)
2823	Plastics materials:											
	Number of establishments....	206	21	22	36	40	30	22	14	10	9	2
	Total employees.....	41,145	72	165	562	1,312	2,043	3,897	4,747	7,718	20,627	(D)
	Total payroll.....\$1,000..	201,487	297	758	2,584	5,983	10,293	19,015	23,906	36,906	101,745	(D)
	Production workers:											
	Number.....	28,388	52	115	389	976	1,443	2,665	3,336	5,384	14,025	(D)
	Man-hours.....1,000..	57,441	100	219	796	1,908	3,035	5,414	6,897	10,769	28,301	(D)
	Wages.....\$1,000..	122,188	190	421	1,421	3,409	5,948	11,424	14,923	23,088	61,362	(D)
	Value added by mfg....do....	583,224	496	1,940	5,547	15,946	22,698	53,762	80,907	117,842	284,083	(D)
	Cost of materials.....do....	648,224	959	4,064	13,787	32,575	38,384	81,811	80,631	97,379	298,631	(D)
	Value of shipments.....do....	1,231,448	1,456	6,005	19,335	48,521	61,081	135,573	161,538	215,222	582,715	(D)
	Capital expenditures..do....	108,058	(1)	(1)	(1)	7,134	1,596	52,912	11,158	9,632	24,706	(D)
	Horsepower.....1,000 hp..	563	39	1	4	14	23	110	47	90	235	(D)
	Electricity used..mil. kwh..	1,019	80	4	8	16	31	111	111	201	457	(D)
2824	Synthetic rubber:											
	Number of establishments....	21	...	...	...	2	...	4	12	2	1	...
	Total employees.....	8,531	...	...	...	746	...	(D)	7,785	(D)	(D)	...
	Total payroll.....\$1,000..	44,502	...	...	...	3,893	...	(D)	40,609	(D)	(D)	...
	Production workers:											
	Number.....	6,178	...	...	...	413	...	(D)	5,765	(D)	(D)	...
	Man-hours.....1,000..	12,217	...	...	...	874	...	(D)	11,343	(D)	(D)	...
	Wages.....\$1,000..	30,214	...	...	...	2,024	...	(D)	28,190	(D)	(D)	...
	Value added by mfg....do....	152,906	...	...	...	10,182	...	(D)	142,723	(D)	(D)	...
	Cost of materials.....do....	208,187	...	...	...	12,933	...	(D)	195,254	(D)	(D)	...
	Value of shipments.....do....	361,093	...	...	...	23,116	...	(D)	337,976	(D)	(D)	...
	Capital expenditures..do....	13,760	...	...	...	2,360	...	(D)	11,399	(D)	(D)	...
	Horsepower.....1,000 hp..	283	...	...	...	22	...	(D)	261	(D)	(D)	...
	Electricity used..mil. kwh..	459	...	...	...	32	...	(D)	427	(D)	(D)	...
2825	Synthetic fibers:											
	Number of establishments....	46	...	...	2	4	...	5	4	6	16	9
	Total employees.....	61,105	...	...	165	(D)	...	788	1,469	4,524	27,274	26,884
	Total payroll.....\$1,000..	261,753	...	...	626	(D)	...	3,753	6,308	18,889	111,288	120,888
	Production workers:											
	Number.....	45,894	...	...	141	(D)	...	629	1,098	3,696	20,564	19,765
	Man-hours.....1,000..	89,959	...	...	292	(D)	...	1,298	2,333	7,179	40,812	38,044
	Wages.....\$1,000..	174,376	...	...	457	(D)	...	2,397	4,390	14,078	76,047	77,006
	Value added by mfg....do....	717,226	...	...	763	(D)	...	12,011	11,829	44,020	293,198	355,407
	Cost of materials.....do....	523,713	...	...	1,270	(D)	...	7,799	18,864	31,393	192,090	272,296
	Value of shipments.....do....	1,240,942	...	...	2,034	(D)	...	19,810	30,693	75,413	485,288	627,703
	Capital expenditures..do....	62,751	...	...	(1)	(D)	...	599	3,212	2,167	22,008	34,662
	Horsepower.....1,000 hp..	1,035	...	...	11	(D)	...	3	25	82	561	353
	Electricity used..mil. kwh..	2,237	...	...	1	(D)	...	12	78	226	1,143	777
2826	Explosives:											
	Number of establishments....	74	10	5	4	9	9	14	10	5	3	5
	Total employees.....	32,478	27	33	52	281	708	2,370	3,183	7,800	(D)	18,022
	Total payroll.....\$1,000..	146,843	93	118	145	1,110	2,992	10,265	13,833	35,611	(D)	82,673
	Production workers:											
	Number.....	25,544	19	27	38	214	565	1,985	2,315	6,166	(D)	14,211
	Man-hours.....1,000..	51,696	37	49	44	390	1,129	3,887	4,522	12,530	(D)	29,105
	Wages.....\$1,000..	109,986	63	86	74	718	2,205	8,222	9,564	26,246	(D)	62,804
	Value added by mfg....do....	205,442	298	265	259	1,970	6,581	23,535	32,074	56,103	(D)	84,355
	Cost of materials.....do....	184,194	174	1,345	295	1,980	6,675	20,580	28,313	36,804	(D)	88,026
	Value of shipments.....do....	389,638	472	1,611	554	3,950	13,257	44,115	60,388	92,908	(D)	172,382
	Capital expenditures..do....	17,279	(1)	(1)	(1)	(1)	(1)	955	2,374	2,196	(D)	11,168
	Horsepower.....1,000 hp..	480	(2)	(2)	(2)	1	3	22	17	164	(D)	273
	Electricity used..mil. kwh..	394	(3)	1	(3)	1	4	30	48	121	(D)	189

See footnotes at end of table.

SIZE OF ESTABLISHMENTS

203-45

Table 1.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR MAJOR INDUSTRY GROUPS AND INDUSTRIES: 1954—Con.

Code	Industry group, industry, and item	Total, all estab- lish- ments	Establishments with an average of—									
			1-4 em- ployees	5-9 em- ployees	10-19 em- ployees	20-49 em- ployees	50-99 em- ployees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
2829	Organic chemicals, nec:											
	Number of establishments....	275	45	28	34	62	29	30	21	9	12	5
	Total employees.....	67,531	118	200	455	2,067	2,004	4,658	7,435	6,227	19,826	24,537
	Total payroll.....\$1,000..	364,852	439	923	2,158	10,015	9,686	22,345	37,600	32,263	106,339	143,082
	Production workers:											
	Number.....	46,428	87	135	301	1,490	1,452	3,064	5,338	4,192	13,280	17,086
	Man-hours.....1,000..	93,101	159	272	602	3,100	2,923	6,221	11,208	8,440	26,427	33,745
	Wages.....\$1,000..	227,428	263	538	1,193	6,138	5,659	12,861	24,785	20,015	64,886	91,087
	Value added by mfg....do....	1,171,165	1,150	2,288	5,163	33,449	24,147	75,214	102,511	132,507	357,967	436,766
	Cost of materials.....do....	1,027,522	1,809	2,370	7,003	46,889	34,535	82,142	112,424	89,519	307,788	343,041
	Value of shipments.....do....	2,198,687	2,959	4,658	12,167	80,339	58,682	157,356	214,935	222,026	665,755	779,807
	Capital expenditures..do....	154,550	(1)	(1)	541	2,867	2,184	13,176	41,384	6,830	35,722	51,554
	Horsepower.....1,000 hp..	1,716	19	1	2	18	22	109	201	179	530	635
	Electricity used..mil. kwh..	7,181	304	2	8	32	37	275	320	405	1,215	4,583
2831	Biological products:											
	Number of establishments....	93	27	12	11	20	15	5	2	1	...	...
	Total employees.....	3,965	73	83	144	593	969	857	1,243	(D)	...	...
	Total payroll.....\$1,000..	15,789	218	313	592	2,183	3,984	3,053	5,444	(D)	...	...
	Production workers:											
	Number.....	2,864	53	59	76	453	742	598	879	(D)	...	...
	Man-hours.....1,000..	5,722	90	118	155	885	1,521	1,151	1,799	(D)	...	...
	Wages.....\$1,000..	9,333	140	199	263	1,363	2,411	1,789	3,166	(D)	...	...
	Value added by mfg....do....	36,680	601	869	1,205	4,653	7,725	9,528	12,098	(D)	...	...
	Cost of materials.....do....	24,292	423	274	980	4,363	6,745	4,835	6,670	(D)	...	...
	Value of shipments.....do....	60,973	1,024	1,143	2,186	9,016	14,470	14,363	18,768	(D)	...	...
	Capital expenditures..do....	2,510	(1)	(1)	(1)	(1)	1,111	(1)	565	(D)	...	...
	Horsepower.....1,000 hp..	9	(2)	(2)	(2)	1	3	2	3	(D)	...	...
	Electricity used..mil. kwh..	22	(3)	(3)	1	2	3	4	12	(D)	...	...
2833	Medicinal chemicals (in botanicals):											
	Number of establishments....	115	36	23	16	17	7	7	3	3	3	...
	Total employees.....	11,541	91	170	219	519	516	982	3,474	(D)	5,565	...
	Total payroll.....\$1,000..	56,872	351	797	1,001	2,555	2,476	4,369	17,111	(D)	28,209	...
	Production workers:											
	Number.....	7,743	67	116	146	329	374	762	2,309	(D)	3,635	...
	Man-hours.....1,000..	16,229	131	230	286	635	753	1,544	5,030	(D)	7,616	...
	Wages.....\$1,000..	33,345	174	377	548	1,268	1,405	2,921	9,696	(D)	16,952	...
	Value added by mfg....do....	138,877	1,323	1,892	2,380	5,024	6,743	13,192	57,338	(D)	50,982	...
	Cost of materials.....do....	113,600	1,428	2,645	2,401	4,843	5,755	11,723	25,398	(D)	59,404	...
	Value of shipments.....do....	252,478	2,752	4,538	4,782	9,868	12,499	24,916	82,736	(D)	110,386	...
	Capital expenditures..do....	12,948	(1)	(1)	(1)	2,510	2,300	775	2,384	(D)	4,605	...
	Horsepower.....1,000 hp..	96	1	(2)	2	7	14	9	49	(D)	14	...
	Electricity used..mil. kwh..	354	38	1	4	13	26	16	121	(D)	135	...
2834	Pharmaceutical preparations:											
	Number of establishments....	1,163	550	174	123	144	60	62	22	15	7	6
	Total employees.....	76,555	1,349	1,233	1,753	4,466	4,089	9,352	8,291	10,937	10,934	24,147
	Total payroll.....\$1,000..	353,769	3,334	4,247	6,406	18,218	19,660	38,735	37,278	51,508	54,703	119,677
	Production workers:											
	Number.....	47,320	998	890	1,170	3,125	3,272	5,204	4,440	5,207	6,474	16,537
	Man-hours.....1,000..	95,123	1,793	1,588	2,055	5,746	6,111	10,021	8,906	10,303	14,153	34,445
	Wages.....\$1,000..	173,324	2,072	2,247	2,971	8,304	8,942	16,350	14,884	19,842	28,195	69,513
	Value added by mfg....do....	1,161,004	9,531	11,388	15,305	45,625	46,852	155,207	137,574	169,060	189,848	380,610
	Cost of materials.....do....	482,136	6,672	7,652	11,152	28,532	27,945	61,487	56,438	62,919	59,880	159,454
	Value of shipments.....do....	1,643,140	16,203	19,044	26,456	74,156	74,798	216,695	194,013	231,980	249,728	540,065
	Capital expenditures..do....	40,303	(1)	(1)	(1)	1,285	1,766	2,582	3,286	4,396	9,082	16,606
	Horsepower.....1,000 hp..	208	2	1	1	7	6	16	12	34	43	86
	Electricity used..mil. kwh..	619	5	5	7	14	13	27	44	78	143	283
2841	Soap and glycerin:											
	Number of establishments....	289	121	45	35	31	20	10	14	8	4	1
	Total employees.....	25,839	264	325	481	981	1,475	1,738	5,070	5,707	9,796	(D)
	Total payroll.....\$1,000..	127,817	670	1,170	1,997	3,920	6,178	7,596	27,728	27,976	50,580	(D)
	Production workers:											
	Number.....	15,668	192	214	291	563	899	1,008	2,835	3,933	5,730	(D)
	Man-hours.....1,000..	29,259	369	415	471	1,090	1,808	1,935	5,752	7,293	10,122	(D)
	Wages.....\$1,000..	68,303	463	661	833	1,783	2,966	3,374	13,283	17,641	27,298	(D)
	Value added by mfg....do....	510,756	1,632	2,455	3,028	8,230	11,053	19,412	150,100	133,075	181,767	(D)
	Cost of materials.....do....	448,923	2,055	3,335	4,261	9,620	11,852	20,245	147,156	113,916	136,481	(D)
	Value of shipments.....do....	959,679	3,687	5,791	7,289	17,851	22,906	39,658	297,256	246,991	318,248	(D)
	Capital expenditures..do....	13,358	(1)	(1)	(1)	(1)	(1)	575	1,452	1,699	8,645	(D)
	Horsepower.....1,000 hp..	155	1	1	3	7	9	9	42	41	42	(D)
	Electricity used..mil. kwh..	242	1	1	2	3	7	7	74	64	83	(D)

See footnotes at end of table.

MANUFACTURES—SUMMARY STATISTICS

Table 1.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR MAJOR INDUSTRY GROUPS AND INDUSTRIES: 1954—Con.

Code	Industry group, industry, and item	Total, all estab- lish- ments	Establishments with an average of—									
			1-4 em- ployees	5-9 em- ployees	10-19 em- ployees	20-49 em- ployees	50-99 em- ployees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
2842	<u>Cleaning and polishing products:</u>											
	Number of establishments....	1,151	625	203	150	98	42	25	7	1	...	...
	Total employees.....	18,026	1,445	1,430	2,154	3,099	2,900	3,883	3,112	(D)	...	...
	Total payroll.....\$1,000..	78,550	3,861	5,476	9,033	13,399	13,490	18,527	14,761	(D)	...	...
	Production workers:											
	Number.....	10,551	1,053	970	1,386	1,773	1,662	1,997	1,707	(D)	...	...
	Man-hours.....1,000..	20,206	2,038	1,951	2,537	3,162	2,893	4,236	3,387	(D)	...	...
	Wages.....\$1,000..	34,593	2,603	3,034	4,214	5,376	5,012	8,055	6,297	(D)	...	...
	Value added by mfg....do....	288,590	9,810	12,368	24,952	32,765	40,465	74,482	93,745	(D)	...	...
	Cost of materials.....do....	271,478	11,168	12,449	25,213	33,785	40,874	65,697	82,288	(D)	...	...
	Value of shipments.....do....	560,059	20,978	24,818	50,165	66,551	81,330	140,180	176,035	(D)	...	...
	Capital expenditures..do....	12,711	640	544	1,153	1,205	1,112	3,275	4,779	(D)	...	...
	Horsepower.....1,000 hp..	55	7	2	3	7	7	10	19	(D)	...	...
	Electricity used..mil. kwh..	100	15	3	5	8	8	17	44	(D)	...	...
2843	<u>Sulfonated oils and assistants:</u>											
	Number of establishments....	103	31	21	20	20	7	3	1	...	...	...
	Total employees.....	2,355	82	133	296	601	1,240	(D)	(D)	...	...	...
	Total payroll.....\$1,000..	13,044	298	638	1,592	3,521	6,992	(D)	(D)	...	...	...
	Production workers:											
	Number.....	1,352	34	70	152	340	753	(D)	(D)	...	...	...
	Man-hours.....1,000..	2,507	65	130	296	585	1,428	(D)	(D)	...	...	...
	Wages.....\$1,000..	4,729	105	220	586	1,054	2,761	(D)	(D)	...	...	...
	Value added by mfg....do....	28,322	778	1,153	3,031	7,062	16,296	(D)	(D)	...	...	...
	Cost of materials.....do....	34,655	1,150	1,675	3,632	8,300	19,896	(D)	(D)	...	...	...
	Value of shipments.....do....	62,977	1,929	2,829	6,663	15,363	36,192	(D)	(D)	...	...	...
	Capital expenditures..do....	1,578	(1)	(1)	(1)	(1)	1,154	(D)	(D)	...	...	...
	Horsepower.....1,000 hp..	12	(2)	(2)	1	3	8	(D)	(D)	...	...	...
	Electricity used..mil. kwh..	12	(3)	(3)	1	3	8	(D)	(D)	...	...	...
2851	<u>Paints and varnishes:</u>											
	Number of establishments....	1,469	436	250	231	257	160	103	25	5	2	...
	Total employees.....	56,580	1,204	1,800	3,234	8,136	11,108	16,050	9,216	5,828	(D)	...
	Total payroll.....\$1,000..	263,887	3,998	7,356	14,012	37,271	53,332	77,354	42,600	27,962	(D)	...
	Production workers:											
	Number.....	33,865	888	1,225	2,017	4,844	6,462	9,077	5,742	3,606	(D)	...
	Man-hours.....1,000..	67,660	1,756	2,474	4,061	9,567	12,885	18,455	11,428	7,032	(D)	...
	Wages.....\$1,000..	127,640	2,634	4,182	6,882	16,854	23,225	35,209	23,425	15,226	(D)	...
	Value added by mfg....do....	642,656	9,385	15,941	29,333	75,451	110,679	191,014	139,940	70,911	(D)	...
	Cost of materials.....do....	851,816	15,271	27,607	45,785	111,055	153,457	246,750	170,662	81,225	(D)	...
	Value of shipments.....do....	1,494,399	24,655	43,477	75,119	186,506	264,137	437,764	310,603	152,136	(D)	...
	Capital expenditures..do....	21,268	(1)	849	1,142	2,201	2,727	6,945	3,376	3,556	(D)	...
	Horsepower.....1,000 hp..	335	1	10	16	44	78	89	60	37	(D)	...
	Electricity used..mil. kwh..	347	5	9	18	33	48	100	88	46	(D)	...
2852	<u>Inorganic color pigments:</u>											
	Number of establishments....	104	21	11	17	13	17	12	8	2	3	...
	Total employees.....	12,182	51	90	243	436	1,224	1,984	2,629	5,523	(D)	...
	Total payroll.....\$1,000..	54,755	163	477	944	1,874	5,273	8,215	11,613	26,193	(D)	...
	Production workers:											
	Number.....	9,042	38	69	186	339	971	1,547	1,924	3,967	(D)	...
	Man-hours.....1,000..	18,220	73	159	401	647	1,942	3,139	3,857	8,000	(D)	...
	Wages.....\$1,000..	37,193	114	290	633	1,125	3,722	5,901	7,747	17,659	(D)	...
	Value added by mfg....do....	196,901	488	881	2,405	2,819	13,048	21,524	32,897	122,838	(D)	...
	Cost of materials.....do....	174,493	696	1,048	7,972	7,252	26,756	36,536	32,113	62,117	(D)	...
	Value of shipments.....do....	371,395	1,184	1,930	10,377	10,071	39,804	58,060	65,010	184,955	(D)	...
	Capital expenditures..do....	8,358	(1)	(1)	(1)	(1)	(1)	734	3,482	3,430	(D)	...
	Horsepower.....1,000 hp..	204	1	1	7	8	17	29	52	89	(D)	...
	Electricity used..mil. kwh..	461	1	(3)	3	5	28	80	90	254	(D)	...
2853	<u>Whiting and fillers:</u>											
	Number of establishments....	98	33	30	17	15	2	1	...	...	...	...
	Total employees.....	1,210	85	199	218	454	252	(D)	...	...	...	...
	Total payroll.....\$1,000..	5,363	267	869	834	2,186	1,205	(D)	...	...	...	...
	Production workers:											
	Number.....	764	63	139	154	285	121	(D)	...	...	...	...
	Man-hours.....1,000..	1,528	126	269	302	578	251	(D)	...	...	...	...
	Wages.....\$1,000..	2,510	182	425	506	980	415	(D)	...	...	...	...
	Value added by mfg....do....	10,337	832	1,707	2,577	4,035	1,185	(D)	...	...	...	...
	Cost of materials.....do....	13,865	912	1,974	2,705	4,271	4,001	(D)	...	...	...	...
	Value of shipments.....do....	24,203	1,745	3,682	5,282	8,306	5,187	(D)	...	...	...	...
	Capital expenditures..do....	(1)	(1)	(1)	(1)	(1)	(1)	(D)	...	...	...	...
	Horsepower.....1,000 hp..	5	1	1	1	1	1	(D)	...	...	...	...
	Electricity used..mil. kwh..	4	1	1	1	1	(3)	(D)	...	...	...	...

See footnotes at end of table.

SIZE OF ESTABLISHMENTS

203-47

Table 1.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR MAJOR INDUSTRY GROUPS AND INDUSTRIES: 1954—Con.

Code	Industry group, industry, and item	Total, all estab- lish- ments	Establishments with an average of—									
			1-4 em- ployees	5-9 em- ployees	10-19 em- ployees	20-49 em- ployees	50-99 em- ployees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
2861	Hardwood distillation:											
	Number of establishments....	34	8	9	7	5	...	3	2	...	...	...
	Total employees.....	1,627	24	63	86	153	...	1,299	(D)	...	...	...
	Total payroll.....\$1,000..	5,222	45	145	210	412	...	4,408	(D)	...	...	...
	Production workers:											
	Number.....	1,384	20	52	76	124	...	1,111	(D)	...	...	...
	Man-hours.....1,000..	2,896	39	83	147	280	...	2,345	(D)	...	...	...
	Wages.....\$1,000..	4,114	39	108	168	316	...	3,481	(D)	...	...	...
	Value added by mfg....do....	7,419	98	223	346	638	...	6,112	(D)	...	...	...
	Cost of materials.....do....	8,586	72	223	311	586	...	7,393	(D)	...	...	...
	Value of shipments.....do....	16,006	171	446	658	1,224	...	13,505	(D)	...	...	...
	Capital expenditures..do....	(1)	(1)	(1)	(1)	(1)	...	(1)	(D)	...	...	...
	Horsepower.....1,000 hp..	19	(2)	(2)	(2)	(2)	...	19	(D)	...	...	...
	Electricity used..mil. kwh..	39	(3)	(3)	(3)	(3)	...	39	(D)	...	...	...
2862	Softwood distillation:											
	Number of establishments....	27	5	2	1	4	3	6	4	2	...	...
	Total employees.....	4,431	10	30	(D)	142	244	1,033	2,971	(D)	...	...
	Total payroll.....\$1,000..	17,662	11	75	(D)	365	737	3,447	13,026	(D)	...	...
	Production workers:											
	Number.....	3,698	8	21	(D)	128	205	891	2,443	(D)	...	...
	Man-hours.....1,000..	7,886	8	32	(D)	289	431	1,900	5,224	(D)	...	...
	Wages.....\$1,000..	13,260	10	42	(D)	287	544	2,817	9,559	(D)	...	...
	Value added by mfg....do....	47,374	22	95	(D)	542	1,323	6,267	39,124	(D)	...	...
	Cost of materials.....do....	41,275	16	85	(D)	836	1,197	6,783	32,356	(D)	...	...
	Value of shipments.....do....	88,650	38	180	(D)	1,378	2,521	13,051	71,480	(D)	...	...
	Capital expenditures..do....	6,662	(1)	(1)	(D)	(1)	(1)	587	5,986	(D)	...	...
	Horsepower.....1,000 hp..	59	(2)	(2)	(D)	(2)	2	5	52	(D)	...	...
	Electricity used..mil. kwh..	166	1	(3)	(D)	(3)	3	19	143	(D)	...	...
2863	Gum naval stores:											
	Number of establishments....	26	2	3	14	6	1	...	...	...	...	...
	Total employees.....	516	29	(D)	212	274	(D)	...	...	...	...	...
	Total payroll.....\$1,000..	1,289	61	(D)	508	719	(D)	...	...	...	...	...
	Production workers:											
	Number.....	423	25	(D)	174	222	(D)	...	...	...	...	...
	Man-hours.....1,000..	927	48	(D)	388	489	(D)	...	...	...	...	...
	Wages.....\$1,000..	902	53	(D)	370	477	(D)	...	...	...	...	...
	Value added by mfg....do....	2,473	99	(D)	1,047	1,326	(D)	...	...	...	...	...
	Cost of materials.....do....	22,365	877	(D)	10,000	11,486	(D)	...	...	...	...	...
	Value of shipments.....do....	24,840	977	(D)	11,049	12,813	(D)	...	...	...	...	...
	Capital expenditures..do....	(1)	(1)	(D)	(1)	(1)	(D)	...	...	...	...	...
	Horsepower.....1,000 hp..	2	(2)	(D)	2	(2)	(D)	...	...	...	...	...
	Electricity used..mil. kwh..	2	(3)	(D)	1	1	(D)	...	...	...	...	...
2865	Tanning and dyeing materials:											
	Number of establishments....	30	11	7	3	3	4	2	...	...	...	...
	Total employees.....	670	28	49	35	557	(D)	(D)	...	...	...	...
	Total payroll.....\$1,000..	2,507	88	251	121	2,045	(D)	(D)	...	...	...	...
	Production workers:											
	Number.....	545	20	31	26	467	(D)	(D)	...	...	...	...
	Man-hours.....1,000..	1,054	35	59	41	917	(D)	(D)	...	...	...	...
	Wages.....\$1,000..	1,594	51	96	76	1,370	(D)	(D)	...	...	...	...
	Value added by mfg....do....	4,785	138	579	242	3,825	(D)	(D)	...	...	...	...
	Cost of materials.....do....	9,032	590	1,458	1,083	5,900	(D)	(D)	...	...	...	...
	Value of shipments.....do....	13,818	728	2,037	1,325	9,727	(D)	(D)	...	...	...	...
	Capital expenditures..do....	(1)	(1)	(1)	(1)	(1)	(D)	(D)	...	...	...	...
	Horsepower.....1,000 hp..	7	...	(2)	1	6	(D)	(D)	...	...	...	...
	Electricity used..mil. kwh..	4	(3)	(3)	(3)	4	(D)	(D)	...	...	...	...
2871	Fertilizers:											
	Number of establishments....	260	16	17	12	72	86	48	7	2	...	...
	Total employees.....	19,728	46	122	181	2,619	5,993	7,105	3,660	(D)	...	...
	Total payroll.....\$1,000..	73,048	125	397	578	8,355	21,377	26,928	15,287	(D)	...	...
	Production workers:											
	Number.....	15,728	36	98	160	2,209	4,836	5,468	2,919	(D)	...	...
	Man-hours.....1,000..	34,527	81	218	347	5,002	10,693	11,809	6,375	(D)	...	...
	Wages.....\$1,000..	53,431	98	286	439	6,319	15,628	18,969	11,689	(D)	...	...
	Value added by mfg....do....	171,297	458	848	1,207	19,979	51,954	56,179	40,668	(D)	...	...
	Cost of materials.....do....	362,150	1,170	1,410	3,162	52,574	127,625	119,895	56,311	(D)	...	...
	Value of shipments.....do....	533,448	1,629	2,259	4,369	72,555	179,580	176,074	96,980	(D)	...	...
	Capital expenditures..do....	33,762	(1)	(1)	(1)	2,063	8,071	19,538	3,689	(D)	...	...
	Horsepower.....1,000 hp..	263	7	1	2	29	72	93	59	(D)	...	...
	Electricity used..mil. kwh..	403	20	2	2	18	81	142	138	(D)	...	...

See footnotes at end of table.

MANUFACTURES—SUMMARY STATISTICS

Table 1.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR MAJOR INDUSTRY GROUPS AND INDUSTRIES: 1954—Con.

Code	Industry group, industry, and item	Total, all estab- lish- ments	Establishments with an average of—									
			1-4 em- ployees	5-9 em- ployees	10-19 em- ployees	20-49 em- ployees	50-99 em- ployees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
2872	Fertilizers, mixing only:											
	Number of establishments....	580	98	118	161	153	41	9	...	...	...	...
	Total employees.....	12,040	242	884	2,345	4,655	2,688	1,223	...	...	...	...
	Total payroll.....\$1,000..	38,480	931	2,636	6,667	14,875	9,344	4,025	...	...	...	...
	Production workers:											
	Number.....	8,866	186	679	1,800	3,511	1,829	859	...	...	...	...
	Man-hours.....1,000..	18,575	506	1,309	3,698	7,550	3,660	1,849	...	...	...	...
	Wages.....\$1,000..	23,483	643	1,664	4,278	9,364	5,056	2,474	...	...	...	...
	Value added by mfg....do....	81,125	1,748	5,579	14,967	34,135	18,038	6,657	...	...	...	...
	Cost of materials.....do....	284,204	6,593	17,832	47,123	101,343	56,026	19,284	...	...	...	...
	Value of shipments.....do....	329,328	8,342	23,411	62,089	135,478	74,065	25,941	...	...	...	...
	Capital expenditures....do....	12,825	581	1,234	1,340	6,181	3,203	(1)	...	...	...	...
	Horsepower.....1,000 hp..	81	7	4	15	33	17	5	...	...	...	...
	Electricity used..mil. kwh..	56	8	3	11	18	11	5	...	...	...	...
2881	Cottonseed oil mills:											
	Number of establishments....	286	7	11	30	136	83	18	1	...	...	...
	Total employees.....	13,665	23	91	461	4,665	5,675	2,747	(D)	...	...	...
	Total payroll.....\$1,000..	43,103	118	209	1,178	13,134	17,448	11,015	(D)	...	...	...
	Production workers:											
	Number.....	11,082	17	72	371	3,781	4,696	2,142	(D)	...	...	...
	Man-hours.....1,000..	27,080	39	172	849	9,694	11,164	5,158	(D)	...	...	...
	Wages.....\$1,000..	29,831	54	157	855	9,337	12,088	7,339	(D)	...	...	...
	Value added by mfg....do....	101,164	435	328	3,712	27,721	38,847	30,118	(D)	...	...	...
	Cost of materials.....do....	445,265	4,237	1,510	19,820	132,905	172,481	114,310	(D)	...	...	...
	Value of shipments.....do....	546,430	4,673	1,839	23,532	160,627	211,329	144,428	(D)	...	...	...
	Capital expenditures....do....	11,680	(1)	(1)	(1)	3,480	5,667	2,340	(D)	...	...	...
	Horsepower.....1,000 hp..	441	1	2	14	154	183	87	(D)	...	...	...
	Electricity used..mil. kwh..	683	(3)	2	13	170	311	187	(D)	...	...	...
2882	Linseed oil mills:											
	Number of establishments....	12	...	1	...	3	3	4	1	...	...	...
	Total employees.....	1,263	...	99	...	(D)	245	918	(D)	...	...	...
	Total payroll.....\$1,000..	5,625	...	304	...	(D)	1,029	4,290	(D)	...	...	...
	Production workers:											
	Number.....	1,026	...	81	...	(D)	214	730	(D)	...	...	...
	Man-hours.....1,000..	2,479	...	142	...	(D)	486	1,850	(D)	...	...	...
	Wages.....\$1,000..	4,860	...	224	...	(D)	864	3,771	(D)	...	...	...
	Value added by mfg....do....	16,679	...	841	...	(D)	4,972	10,865	(D)	...	...	...
	Cost of materials.....do....	122,940	...	3,521	...	(D)	27,360	92,057	(D)	...	...	...
	Value of shipments.....do....	139,619	...	4,363	...	(D)	32,333	102,922	(D)	...	...	...
	Capital expenditures....do....	1,311	...	(1)	...	(D)	(1)	947	(D)	...	...	...
	Horsepower.....1,000 hp..	24	...	2	...	(D)	6	16	(D)	...	...	...
	Electricity used..mil. kwh..	79	...	2	...	(D)	22	55	(D)	...	...	...
2883	Soybean oil mills:											
	Number of establishments....	88	2	8	9	28	22	12	6	1	...	...
	Total employees.....	6,922	69	(D)	125	1,024	1,616	1,636	2,450	(D)	...	...
	Total payroll.....\$1,000..	29,453	261	(D)	500	3,955	6,146	6,582	12,008	(D)	...	...
	Production workers:											
	Number.....	5,447	54	(D)	98	782	1,326	1,327	1,858	(D)	...	...
	Man-hours.....1,000..	11,624	122	(D)	226	1,676	2,911	2,583	4,104	(D)	...	...
	Wages.....\$1,000..	20,679	180	(D)	324	2,701	4,712	4,515	8,243	(D)	...	...
	Value added by mfg....do....	106,938	707	(D)	689	11,291	36,696	13,188	44,365	(D)	...	...
	Cost of materials.....do....	719,422	7,025	(D)	8,876	111,822	232,733	147,295	211,670	(D)	...	...
	Value of shipments.....do....	826,362	7,733	(D)	9,566	123,114	269,429	160,483	256,035	(D)	...	...
	Capital expenditures....do....	8,479	(1)	(D)	(1)	2,070	1,248	2,371	2,698	(D)	...	...
	Horsepower.....1,000 hp..	136	7	(D)	2	22	33	32	40	(D)	...	...
	Electricity used..mil. kwh..	391	16	(D)	4	47	90	74	160	(D)	...	...
2884	Vegetable oil mills, nec:											
	Number of establishments....	51	6	8	12	15	4	5	...	1	...	...
	Total employees.....	2,460	13	55	179	501	300	1,410	...	(D)	...	...
	Total payroll.....\$1,000..	9,198	71	176	568	1,728	1,366	5,288	...	(D)	...	...
	Production workers:											
	Number.....	1,893	10	43	146	422	230	1,042	...	(D)	...	...
	Man-hours.....1,000..	4,041	41	102	313	891	502	2,189	...	(D)	...	...
	Wages.....\$1,000..	6,337	62	129	418	1,296	924	3,506	...	(D)	...	...
	Value added by mfg....do....	21,240	99	448	1,487	3,383	2,519	13,303	...	(D)	...	...
	Cost of materials.....do....	144,740	427	1,376	7,056	33,912	38,022	63,946	...	(D)	...	...
	Value of shipments.....do....	165,982	526	1,825	8,543	37,296	40,541	77,249	...	(D)	...	...
	Capital expenditures....do....	2,470	(1)	(1)	(1)	705	(1)	1,134	...	(D)	...	...
	Horsepower.....1,000 hp..	52	2	1	4	22	9	14	...	(D)	...	...
	Electricity used..mil. kwh..	79	5	1	4	17	23	29	...	(D)	...	...

See footnotes at end of table.

SIZE OF ESTABLISHMENTS

203-49

Table 1.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR MAJOR INDUSTRY GROUPS AND INDUSTRIES: 1954—Con.

Code	Industry group, industry, and item	Total, all estab- lish- ments	Establishments with an average of—									
			1-4 em- ployees	5-9 em- ployees	10-19 em- ployees	20-49 em- ployees	50-99 em- ployees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
2886	Grease and tallow:											
	Number of establishments....	500	99	122	135	99	30	11	3	1	...	...
	Total employees.....	11,466	281	903	1,914	3,219	1,974	1,607	1,564	(D)	...	...
	Total payroll.....\$1,000..	46,633	745	3,028	7,473	12,878	8,565	6,933	7,009	(D)	...	...
	Production workers:											
	Number.....	8,480	221	698	1,421	2,491	1,485	1,093	1,069	(D)	...	...
	Man-hours.....1,000..	19,567	486	1,632	3,332	5,780	3,445	2,371	2,518	(D)	...	...
	Wages.....\$1,000..	31,291	582	2,170	4,946	8,874	5,741	4,315	4,659	(D)	...	...
	Value added by mfg....do....	95,451	2,174	6,856	15,447	28,098	16,160	12,001	14,712	(D)	...	...
	Cost of materials.....do....	127,072	2,468	6,697	19,429	38,293	23,867	18,505	17,811	(D)	...	...
	Value of shipments.....do....	222,516	4,635	13,554	34,877	66,392	40,027	30,507	32,523	(D)	...	...
	Capital expenditures..do....	8,138	(1)	519	2,696	2,257	816	853	710	(D)	...	...
	Horsepower.....1,000 hp..	102	1	4	21	37	17	15	7	(D)	...	...
	Electricity used..mil. kwh..	122	2	5	21	31	23	16	24	(D)	...	...
2887	Fatty acids:											
	Number of establishments....	15	...	2	1	1	4	5	2	...	...	...
	Total employees.....	1,891	...	68	(D)	(D)	304	1,518	(D)	...	...	...
	Total payroll.....\$1,000..	10,263	...	319	(D)	(D)	1,592	8,351	(D)	...	...	...
	Production workers:											
	Number.....	1,185	...	50	(D)	(D)	230	903	(D)	...	...	...
	Man-hours.....1,000..	2,712	...	130	(D)	(D)	571	2,009	(D)	...	...	...
	Wages.....\$1,000..	6,009	...	155	(D)	(D)	1,097	4,755	(D)	...	...	...
	Value added by mfg....do....	21,922	...	930	(D)	(D)	2,673	18,317	(D)	...	...	...
	Cost of materials.....do....	34,069	...	744	(D)	(D)	5,408	27,915	(D)	...	...	...
	Value of shipments.....do....	55,991	...	1,675	(D)	(D)	8,081	46,233	(D)	...	...	...
	Capital expenditures..do....	4,819	...	(1)	(D)	(D)	1,324	2,994	(D)	...	...	...
	Horsepower.....1,000 hp..	46	...	(2)	(D)	(D)	31	15	(D)	...	...	...
	Electricity used..mil. kwh..	51	...	1	(D)	(D)	7	43	(D)	...	...	...
2889	Animal oils, nec:											
	Number of establishments....	61	11	7	6	21	10	6	...	...	...	...
	Total employees.....	2,294	30	56	89	656	648	813	...	...	...	...
	Total payroll.....\$1,000..	8,430	68	200	345	2,489	2,448	2,879	...	...	...	...
	Production workers:											
	Number.....	1,889	26	45	66	552	472	726	...	...	...	...
	Man-hours.....1,000..	4,384	48	101	147	1,285	1,122	1,680	...	...	...	...
	Wages.....\$1,000..	6,282	54	142	257	1,845	1,583	2,400	...	...	...	...
	Value added by mfg....do....	22,079	160	289	668	5,433	7,214	8,312	...	...	...	...
	Cost of materials.....do....	43,294	348	1,372	1,767	14,362	11,615	13,828	...	...	...	...
	Value of shipments.....do....	65,374	508	1,662	2,436	19,796	18,829	22,140	...	...	...	...
	Capital expenditures..do....	4,544	(1)	(1)	(1)	841	1,960	1,647	...	...	...	...
	Horsepower.....1,000 hp..	53	1	1	1	14	19	17	...	...	...	...
	Electricity used..mil. kwh..	28	1	1	1	8	8	9	...	...	...	...
2891	Printing ink:											
	Number of establishments....	271	63	71	50	46	25	11	5	...	...	...
	Total employees.....	7,609	177	502	687	1,446	1,714	3,080	(D)	...	...	...
	Total payroll.....\$1,000..	35,713	613	2,210	3,068	7,286	9,164	13,370	(D)	...	...	...
	Production workers:											
	Number.....	5,268	133	338	450	952	1,119	2,273	(D)	...	...	...
	Man-hours.....1,000..	10,699	261	696	919	1,922	2,275	4,623	(D)	...	...	...
	Wages.....\$1,000..	20,746	431	1,265	1,631	3,736	4,421	9,259	(D)	...	...	...
	Value added by mfg....do....	87,289	2,006	4,568	7,098	15,772	18,058	39,783	(D)	...	...	...
	Cost of materials.....do....	93,349	2,456	5,633	7,410	16,192	19,909	41,746	(D)	...	...	...
	Value of shipments.....do....	180,638	4,463	10,202	14,509	31,965	37,967	81,530	(D)	...	...	...
	Capital expenditures..do....	6,336	(1)	(1)	691	(1)	772	4,159	(D)	...	...	...
	Horsepower.....1,000 hp..	54	1	2	5	10	11	25	(D)	...	...	...
	Electricity used..mil. kwh..	60	1	3	6	9	13	28	(D)	...	...	...
2892	Essential oils:											
	Number of establishments....	37	21	4	2	6	4	...	...	...	...	...
	Total employees.....	547	60	49	(D)	175	263	...	...	...	...	...
	Total payroll.....\$1,000..	2,846	212	276	(D)	920	1,438	...	...	...	...	...
	Production workers:											
	Number.....	330	45	34	(D)	113	137	...	...	...	...	...
	Man-hours.....1,000..	636	84	72	(D)	208	270	...	...	...	...	...
	Wages.....\$1,000..	1,215	126	142	(D)	402	543	...	...	...	...	...
	Value added by mfg....do....	5,484	632	478	(D)	1,960	2,412	...	...	...	...	...
	Cost of materials.....do....	15,348	1,124	536	(D)	8,224	5,461	...	...	...	...	...
	Value of shipments.....do....	20,832	1,756	1,016	(D)	10,185	7,873	...	...	...	...	...
	Capital expenditures..do....	(1)	(1)	(1)	(D)	(1)	(1)	...	...	...	...	...
	Horsepower.....1,000 hp..	1	(2)	(2)	(D)	1	(2)	...	...	...	...	...
	Electricity used..mil. kwh..	5	2	1	(D)	1	1	...	...	...	...	...

See footnotes at end of table.

Table 1.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR MAJOR INDUSTRY GROUPS AND INDUSTRIES: 1954—Con.

Code	Industry group, industry, and item	Total, all estab- lish- ments	Establishments with an average of—									
			1-4 em- ployees	5-9 em- ployees	10-19 em- ployees	20-49 em- ployees	50-99 em- ployees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
2893	<u>Toilet preparations:</u>											
	Number of establishments....	710	366	104	73	70	40	33	16	7	1	...
	Total employees.....	24,809	817	745	996	2,261	2,780	5,090	5,804	6,313	(D)	...
	Total payroll.....\$1,000..	94,726	1,886	2,281	3,132	7,380	10,166	18,586	23,072	28,220	(D)	...
	Production workers:											
	Number.....	16,185	607	527	725	1,568	1,930	3,305	3,921	3,599	(D)	...
	Man-hours.....1,000..	31,051	1,106	951	1,336	2,841	3,659	6,217	7,386	7,552	(D)	...
	Wages.....\$1,000..	47,728	1,337	1,424	1,825	3,703	5,386	9,546	12,500	12,005	(D)	...
	Value added by mfg....do....	419,666	5,743	6,899	7,398	24,181	42,776	68,429	163,785	100,453	(D)	...
	Cost of materials.....do....	208,986	4,777	5,486	5,641	13,571	24,841	42,177	62,771	49,719	(D)	...
	Value of shipments.....do....	628,651	10,520	12,386	13,040	37,752	67,617	110,606	226,556	150,172	(D)	...
	Capital expenditures.....do....	7,537	(1)	(1)	(1)	560	563	1,385	1,253	2,907	(D)	...
	Horsepower.....1,000 hp..	32	2	(2)	1	2	3	6	7	11	(D)	...
	Electricity used..mil. kwh..	56	3	2	4	5	5	9	11	17	(D)	...
2894	<u>Glue and gelatin:</u>											
	Number of establishments....	230	82	47	32	33	19	13	4	...	...	...
	Total employees.....	6,753	212	328	442	1,048	1,217	2,117	1,387	...	...	...
	Total payroll.....\$1,000..	29,192	579	1,392	1,871	4,390	5,144	9,263	6,551	...	...	...
	Production workers:											
	Number.....	4,814	141	207	268	716	789	1,497	1,194	...	...	...
	Man-hours.....1,000..	9,425	272	425	484	1,090	1,662	3,040	2,450	...	...	...
	Wages.....\$1,000..	17,683	369	732	779	1,879	2,778	5,849	5,294	...	...	...
	Value added by mfg....do....	64,771	1,657	3,155	3,453	9,310	10,531	19,038	17,625	...	...	...
	Cost of materials.....do....	74,580	2,563	5,177	5,520	12,982	14,450	17,927	15,958	...	...	...
	Value of shipments.....do....	139,352	4,220	8,333	8,974	22,293	24,981	36,966	33,583	...	...	...
	Capital expenditures.....do....	2,945	(1)	(1)	(1)	(1)	(1)	955	938	...	...	...
	Horsepower.....1,000 hp..	51	1	2	2	4	10	17	15	...	...	...
	Electricity used..mil. kwh..	92	4	6	3	5	9	29	36	...	...	...
2895	<u>Carbon black:</u>											
	Number of establishments....	47	2	2	6	14	12	10	1	...	...	...
	Total employees.....	3,410	119	(D)	(D)	513	895	1,882	(D)	...	...	...
	Total payroll.....\$1,000..	16,466	453	(D)	(D)	2,433	4,225	9,355	(D)	...	...	...
	Production workers:											
	Number.....	2,801	97	(D)	(D)	465	761	1,477	(D)	...	...	...
	Man-hours.....1,000..	6,112	182	(D)	(D)	1,023	1,717	3,189	(D)	...	...	...
	Wages.....\$1,000..	13,029	336	(D)	(D)	2,137	3,567	6,988	(D)	...	...	...
	Value added by mfg....do....	62,424	2,043	(D)	(D)	11,405	16,082	32,892	(D)	...	...	...
	Cost of materials.....do....	39,191	1,241	(D)	(D)	7,991	10,792	19,166	(D)	...	...	...
	Value of shipments.....do....	101,616	3,285	(D)	(D)	19,396	26,875	32,060	(D)	...	...	...
	Capital expenditures.....do....	10,597	2,021	(D)	(D)	3,174	(1)	4,911	(D)	...	...	...
	Horsepower.....1,000 hp..	57	(2)	(D)	(D)	8	12	37	(D)	...	...	...
	Electricity used..mil. kwh..	215	3	(D)	(D)	36	49	127	(D)	...	...	...
2896	<u>Compressed and liquefied gases:</u>											
	Number of establishments....	428	67	94	111	107	37	11	1	...	...	...
	Total employees.....	10,363	212	696	1,649	3,347	2,430	2,026	(D)	...	...	...
	Total payroll.....\$1,000..	44,092	976	2,733	6,819	13,565	10,980	9,017	(D)	...	...	...
	Production workers:											
	Number.....	6,315	191	517	1,160	1,948	1,229	1,268	(D)	...	...	...
	Man-hours.....1,000..	13,143	427	1,245	2,413	3,999	2,486	2,571	(D)	...	...	...
	Wages.....\$1,000..	25,288	718	1,950	4,520	7,785	5,109	5,202	(D)	...	...	...
	Value added by mfg....do....	111,254	4,874	8,863	20,505	37,012	24,501	15,497	(D)	...	...	...
	Cost of materials.....do....	56,422	2,530	4,343	9,329	10,599	6,599	23,018	(D)	...	...	...
	Value of shipments.....do....	167,674	7,403	13,207	29,835	47,611	31,101	38,515	(D)	...	...	...
	Capital expenditures.....do....	19,840	545	1,091	8,326	3,656	4,372	1,847	(D)	...	...	...
	Horsepower.....1,000 hp..	371	2	21	61	101	45	141	(D)	...	...	...
	Electricity used..mil. kwh..	1,626	12	37	82	285	149	1,061	(D)	...	...	...
2897	<u>Insecticides and fungicides:</u>											
	Number of establishments....	265	90	46	51	47	20	9	1	1	...	...
	Total employees.....	6,510	231	338	734	1,512	1,364	2,328	(D)	(D)	...	...
	Total payroll.....\$1,000..	25,218	618	1,127	2,664	5,304	5,092	10,411	(D)	(D)	...	...
	Production workers:											
	Number.....	4,276	198	239	465	1,033	952	1,385	(D)	(D)	...	...
	Man-hours.....1,000..	8,224	370	458	825	1,946	1,927	2,695	(D)	(D)	...	...
	Wages.....\$1,000..	13,211	500	634	1,100	2,602	2,928	5,445	(D)	(D)	...	...
	Value added by mfg....do....	62,099	1,745	3,307	5,551	13,675	9,725	28,094	(D)	(D)	...	...
	Cost of materials.....do....	112,514	3,547	6,229	12,770	36,164	23,027	30,774	(D)	(D)	...	...
	Value of shipments.....do....	174,613	5,293	9,537	18,322	49,839	32,752	58,869	(D)	(D)	...	...
	Capital expenditures.....do....	2,988	(1)	(1)	(1)	559	713	823	(D)	(D)	...	...
	Horsepower.....1,000 hp..	80	1	1	3	10	12	53	(D)	(D)	...	...
	Electricity used..mil. kwh..	97	5	5	4	13	13	57	(D)	(D)	...	...

See footnotes at end of table.

SIZE OF ESTABLISHMENTS

203-51

Table 1.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR MAJOR INDUSTRY GROUPS AND INDUSTRIES: 1954—Con.

Code	Industry group, industry, and item	Total, all estab- lish- ments	Establishments with an average of—									
			1-4 em- ployees	5-9 em- ployees	10-19 em- ployees	20-49 em- ployees	50-99 em- ployees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
2898	<u>Salt:</u>											
	Number of establishments....	38	8	4	3	5	1	12	5	...	...	...
	Total employees.....	4,017	19	28	40	229	(D)	1,954	1,744	...	...	...
	Total payroll.....\$1,000..	16,379	64	112	85	<u>784</u>	(D)	7,770	7,562	...	...	...
	Production workers:											
	Number.....	3,346	16	22	37	<u>195</u>	(D)	1,676	1,397	...	...	...
	Man-hours.....1,000..	7,299	32	46	73	<u>429</u>	(D)	3,632	3,084	...	...	...
	Wages.....\$1,000..	12,694	47	83	79	<u>573</u>	(D)	6,243	5,666	...	...	...
	Value added by mfg....do....	48,936	232	252	136	<u>1,429</u>	(D)	25,784	21,101	...	...	...
	Cost of materials.....do....	22,998	110	88	101	<u>646</u>	(D)	13,187	8,864	...	...	...
	Value of shipments.....do....	71,933	343	340	236	<u>2,076</u>	(D)	38,972	29,965	...	...	...
	Capital expenditures..do....	4,328	(1)	(1)	(1)	<u>(1)</u>	(D)	1,916	2,223	...	...	...
	Horsepower.....1,000 hp..	140	(2)	(2)	1	<u>4</u>	(D)	106	29	...	...	...
	Electricity used..mil. kwh..	173	(3)	(3)	1	<u>2</u>	(D)	116	54	...	...	...
2899	<u>Chemical products, nec:</u>											
	Number of establishments....	1,204	638	214	160	110	43	27	9	3	...	...
	Total employees.....	21,415	1,547	1,485	2,297	3,529	2,991	4,207	3,240	2,116	...	...
	Total payroll.....\$1,000..	95,026	4,895	6,032	9,487	15,812	12,822	19,004	16,620	10,352	...	...
	Production workers:											
	Number.....	13,346	1,126	1,025	1,507	2,173	1,758	2,440	1,874	1,441	...	...
	Man-hours.....1,000..	25,443	2,113	1,974	2,602	4,004	3,272	4,925	3,756	2,793	...	...
	Wages.....\$1,000..	45,473	2,916	3,298	4,139	6,939	5,934	8,716	7,609	5,919	...	...
	Value added by mfg....do....	266,627	13,093	14,872	21,917	46,080	48,550	55,675	49,809	16,629	...	...
	Cost of materials.....do....	264,586	12,884	14,729	25,234	49,175	43,369	55,838	38,052	25,302	...	...
	Value of shipments.....do....	531,213	25,978	29,602	47,151	95,256	91,920	111,513	87,861	41,931	...	...
	Capital expenditures..do....	12,586	780	782	1,360	2,108	1,217	2,999	1,759	1,579	...	...
	Horsepower.....1,000 hp..	92	5	3	7	17	16	20	10	14	...	...
	Electricity used..mil. kwh..	195	15	7	10	23	26	58	23	33	...	...
29	<u>Petroleum and coal products:</u>											
	Number of establishments....	1,381	266	220	214	194	139	172	90	46	27	13
	Total employees.....	215,843	702	1,568	3,046	6,220	9,959	25,892	32,996	32,762	42,832	59,848
	Total payroll.....\$1,000..	1,101,814	2,594	6,543	13,730	29,186	45,947	123,992	161,045	166,983	226,167	325,612
	Production workers:											
	Number.....	163,811	571	1,154	2,209	4,418	7,391	20,418	26,486	25,381	32,321	43,444
	Man-hours.....1,000..	322,947	1,098	2,257	4,235	8,590	15,778	42,032	52,640	50,259	62,957	83,083
	Wages.....\$1,000..	778,408	1,825	4,111	7,995	17,294	31,483	90,876	122,160	122,974	160,550	219,126
	Value added by mfg....do....	2,582,613	9,328	17,414	32,200	68,198	107,890	331,555	379,346	472,105	507,206	657,354
	Cost of materials.....do....	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)
	Value of shipments.....do....	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)
	Capital expenditures..do....	753,184	2,478	1,524	6,280	13,283	52,252	66,778	59,789	133,037	208,366	209,380
	Horsepower.....1,000 hp..	7,479	94	29	57	80	126	628	1,137	1,288	2,040	2,000
	Electricity used..mil. kwh..	10,579	51	21	32	81	152	984	1,253	1,755	2,713	3,537
2911	<u>Petroleum refining:</u>											
	Number of establishments....	409	30	22	41	69	54	79	48	30	24	12
	Total employees.....	153,072	75	153	597	2,268	3,967	12,386	18,112	20,905	<u>94,606</u>	(D)
	Total payroll.....\$1,000..	816,120	219	603	2,790	10,965	19,822	62,036	92,810	112,555	<u>514,319</u>	(D)
	Production workers:											
	Number.....	113,829	64	114	448	1,746	3,023	9,570	14,196	15,661	<u>69,004</u>	(D)
	Man-hours.....1,000..	223,116	118	243	952	3,494	6,367	19,698	28,256	31,186	<u>132,799</u>	(D)
	Wages.....\$1,000..	570,791	204	418	1,825	7,336	14,352	45,410	69,934	80,713	<u>350,597</u>	(D)
	Value added by mfg....do....	1,901,333	515	1,327	6,204	29,966	50,764	186,604	232,808	322,140	<u>1,071,005</u>	(D)
	Cost of materials.....do....	9,855,883	815	5,320	26,045	131,568	266,223	920,424	1,227,656	1,653,243	<u>5,624,582</u>	(D)
	Value of shipments.....do....	11,757,218	1,330	6,648	32,250	161,535	316,987	1,107,028	1,460,465	1,975,384	<u>6,695,588</u>	(D)
	Capital expenditures..do....	656,033	1,069	1	4,481	10,423	49,515	58,987	38,539	104,382	<u>388,492</u>	(D)
	Horsepower.....1,000 hp..	6,246	79	1	19	43	86	407	737	1,057	<u>3,817</u>	(D)
	Electricity used..mil. kwh..	9,154	24	2	10	51	103	741	870	1,402	<u>5,951</u>	(D)
2931	<u>Beehive coke ovens:</u>											
	Number of establishments....	40	13	4	13	8	2	...	...	...	...	...
	Total employees.....	594	26	28	202	<u>338</u>	(D)	...	...	...	...	...
	Total payroll.....\$1,000..	1,652	75	49	454	<u>1,073</u>	(D)	...	...	...	...	...
	Production workers:											
	Number.....	548	24	25	187	<u>311</u>	(D)	...	...	...	...	...
	Man-hours.....1,000..	581	35	12	167	<u>366</u>	(D)	...	...	...	...	...
	Wages.....\$1,000..	1,471	69	38	408	<u>956</u>	(D)	...	...	...	...	...
	Value added by mfg....do....	2,494	121	51	982	<u>1,339</u>	(D)	...	...	...	...	...
	Cost of materials.....do....	6,547	257	134	2,220	<u>3,935</u>	(D)	...	...	...	...	...
	Value of shipments.....do....	9,042	378	186	3,203	<u>5,274</u>	(D)	...	...	...	...	...
	Capital expenditures..do....	(1)	...	(1)	...	<u>(1)</u>	(D)	...	...	...	...	...
	Horsepower.....1,000 hp..	10	4	2	2	<u>2</u>	(D)	...	...	...	...	...
	Electricity used..mil. kwh..	10	7	2	(3)	<u>1</u>	(D)	...	...	...	...	...

See footnotes at end of table.

Table 1.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR MAJOR INDUSTRY GROUPS AND INDUSTRIES: 1954—Con.

Code	Industry group, industry, and item	Total, all estab- lish- ments	Establishments with an average of—									
			1-4 em- ployees	5-9 em- ployees	10-19 em- ployees	20-49 em- ployees	50-99 em- ployees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
2932	Byproduct coke ovens:											
	Number of establishments....	79	...	...	...	1	3	31	27	14	2	1
	Total employees.....	31,909	...	...	...	233	(D)	5,176	9,273	17,225	(D)	(D)
	Total payroll.....\$1,000..	146,927	...	...	...	1,115	(D)	24,718	41,673	79,419	(D)	(D)
	Production workers:											
	Number.....	27,419	...	...	...	204	(D)	4,565	8,172	14,476	(D)	(D)
	Man-hours.....1,000..	53,054	...	...	...	404	(D)	9,263	15,605	27,780	(D)	(D)
	Wages.....\$1,000..	117,693	...	...	...	916	(D)	20,368	34,417	61,990	(D)	(D)
	Value added by mfg....do....	371,380	...	...	...	2,128	(D)	53,771	96,716	218,764	(D)	(D)
	Cost of materials.....do....	869,947	...	...	...	6,442	(D)	132,904	233,286	497,313	(D)	(D)
	Value of shipments.....do....	1,241,327	...	...	...	8,570	(D)	186,676	330,002	716,077	(D)	(D)
	Capital expenditures.....do....	79,277	...	...	...	(1)	(D)	3,579	18,721	56,733	(D)	(D)
	Horsepower.....1,000 hp..	963	...	...	...	3	(D)	164	366	430	(D)	(D)
	Electricity used..mil. kwh..	1,137	...	...	...	2	(D)	178	335	621	(D)	(D)
2951	Paving mixtures and blocks:											
	Number of establishments....	326	88	119	72	34	9	4	...	...	...	...
	Total employees.....	4,367	255	856	986	975	704	590	...	...	...	...
	Total payroll.....\$1,000..	20,092	1,013	3,600	4,638	4,537	3,239	3,063	...	...	...	...
	Production workers:											
	Number.....	3,260	203	653	731	713	595	363	...	...	...	...
	Man-hours.....1,000..	6,688	398	1,296	1,514	1,362	1,342	774	...	...	...	...
	Wages.....\$1,000..	12,508	693	2,391	2,835	2,772	2,385	1,431	...	...	...	...
	Value added by mfg....do....	50,260	3,412	11,066	11,901	10,380	6,736	6,763	...	...	...	...
	Cost of materials.....do....	76,300	7,572	20,277	20,408	12,630	9,415	5,997	...	...	...	...
	Value of shipments.....do....	126,561	10,985	31,344	32,309	23,010	16,151	12,760	...	...	...	...
	Capital expenditures.....do....	5,367	1,205	1,172	1,159	1,286	(1)	(1)	...	...	...	...
	Horsepower.....1,000 hp..	75	6	24	19	13	9	4	...	...	...	...
	Electricity used..mil. kwh..	54	5	14	14	10	8	3	...	...	...	...
2952	Roofing felts and coatings:											
	Number of establishments....	197	32	22	23	24	46	37	11	1	1	...
	Total employees.....	15,730	88	150	330	801	3,369	4,985	6,003	(D)	(D)	...
	Total payroll.....\$1,000..	68,054	287	611	1,353	3,296	14,061	20,767	27,677	(D)	(D)	...
	Production workers:											
	Number.....	12,507	65	113	264	617	2,515	4,096	4,833	(D)	(D)	...
	Man-hours.....1,000..	26,950	132	223	536	1,213	5,565	8,616	10,662	(D)	(D)	...
	Wages.....\$1,000..	50,863	197	403	922	2,134	9,801	15,961	21,442	(D)	(D)	...
	Value added by mfg....do....	149,323	588	1,228	3,094	5,900	28,377	53,709	56,425	(D)	(D)	...
	Cost of materials.....do....	251,502	1,248	3,489	9,317	13,262	51,368	86,211	86,604	(D)	(D)	...
	Value of shipments.....do....	400,826	1,837	4,717	12,411	19,162	79,745	139,921	143,031	(D)	(D)	...
	Capital expenditures.....do....	7,787	(1)	(1)	(1)	1,066	1,477	2,100	2,708	(D)	(D)	...
	Horsepower.....1,000 hp..	106	2	1	2	5	20	28	48	(D)	(D)	...
	Electricity used..mil. kwh..	152	3	2	4	6	28	43	66	(D)	(D)	...
2992	Lubricants, nec:											
	Number of establishments....	283	94	48	57	45	19	16	3	1	...	...
	Total employees.....	8,159	237	342	815	1,483	1,205	4,074	(D)	(D)	...	...
	Total payroll.....\$1,000..	40,062	935	1,469	4,054	7,583	5,668	20,350	(D)	(D)	...	...
	Production workers:											
	Number.....	4,702	201	223	484	794	704	2,294	(D)	(D)	...	...
	Man-hours.....1,000..	9,414	385	438	896	1,598	1,447	4,647	(D)	(D)	...	...
	Wages.....\$1,000..	18,912	619	779	1,684	3,049	2,660	10,119	(D)	(D)	...	...
	Value added by mfg....do....	85,063	4,590	3,333	9,403	15,830	13,550	38,354	(D)	(D)	...	...
	Cost of materials.....do....	139,152	6,082	4,673	14,208	27,279	23,445	63,462	(D)	(D)	...	...
	Value of shipments.....do....	224,216	10,673	8,007	23,611	43,110	36,996	101,816	(D)	(D)	...	...
	Capital expenditures.....do....	4,314	(1)	(1)	(1)	(1)	512	2,884	(D)	(D)	...	...
	Horsepower.....1,000 hp..	44	1	1	2	6	6	28	(D)	(D)	...	...
	Electricity used..mil. kwh..	36	1	1	2	5	6	21	(D)	(D)	...	...
2999	Petroleum and coal products, nec:											
	Number of establishments....	47	9	5	8	13	6	5	1	...	...	...
	Total employees.....	2,009	21	39	116	447	389	995	(D)	...	...	...
	Total payroll.....\$1,000..	8,905	65	211	441	2,042	1,732	4,412	(D)	...	...	...
	Production workers:											
	Number.....	1,544	14	26	95	321	266	820	(D)	...	...	...
	Man-hours.....1,000..	3,141	30	45	170	657	553	1,685	(D)	...	...	...
	Wages.....\$1,000..	6,167	43	82	321	1,342	1,074	3,304	(D)	...	...	...
	Value added by mfg....do....	22,754	102	409	616	5,084	6,034	10,507	(D)	...	...	...
	Cost of materials.....do....	35,732	262	643	1,395	10,132	7,641	15,657	(D)	...	...	...
	Value of shipments.....do....	58,486	364	1,053	2,011	15,217	13,675	26,165	(D)	...	...	...
	Capital expenditures.....do....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(D)	...	...	...
	Horsepower.....1,000 hp..	35	2	(2)	13	11	2	7	(D)	...	...	...
	Electricity used..mil. kwh..	36	11	(3)	2	8	4	11	(D)	...	...	...

See footnotes at end of table.

SIZE OF ESTABLISHMENTS

203-53

Table 1.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR MAJOR INDUSTRY GROUPS AND INDUSTRIES: 1954—Con.

Code	Industry group, industry, and item	Total, all estab- lish- ments	Establishments with an average of—									
			1-4 em- ployees	5-9 em- ployees	10-19 em- ployees	20-49 em- ployees	50-99 em- ployees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
30	Rubber products:											
	Number of establishments....	1,406	372	204	177	211	136	134	66	54	36	16
	Total employees.....	246,526	901	1,453	2,514	6,967	9,468	20,994	22,717	38,681	56,753	86,042
	Total payroll.....\$1,000..	1,059,337	2,639	5,139	8,980	25,679	35,437	85,597	90,459	157,789	252,055	395,554
	Production workers:											
	Number.....	196,238	640	1,048	1,922	5,570	7,640	17,231	18,348	30,395	45,738	67,697
	Man-hours.....1,000..	377,414	1,228	2,019	3,629	10,606	15,049	35,211	35,423	59,991	89,894	124,352
	Wages.....\$1,000..	775,499	1,710	3,215	5,781	16,360	23,715	61,072	66,011	113,605	192,054	291,967
	Value added by mfg....do....	1,903,702	6,564	11,413	17,350	48,047	67,531	151,128	147,315	297,403	518,486	638,285
	Cost of materials.....do....	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)
	Value of shipments.....do....	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)
	Capital expenditures..do....	128,431	914	1,355	1,617	4,415	3,448	9,810	8,585	13,766	40,215	44,296
3011	Horsepower.....1,000 hp..	1,848	16	3	12	52	65	170	171	314	519	526
	Electricity used..mil. kwh..	3,749	35	11	23	54	84	267	285	515	1,059	1,416
	Tires and inner tubes:											
	Number of establishments....	49	1	1	1	1	1	4	5	8	18	9
	Total employees.....	92,748	120	(D)	(D)	(D)	(D)	737	1,680	6,250	30,345	53,612
	Total payroll.....\$1,000..	441,607	395	(D)	(D)	(D)	(D)	3,299	7,631	28,273	147,012	254,993
	Production workers:											
	Number.....	73,976	91	(D)	(D)	(D)	(D)	620	1,377	4,833	24,821	42,231
	Man-hours.....1,000..	137,981	210	(D)	(D)	(D)	(D)	1,411	2,713	9,879	49,457	74,307
	Wages.....\$1,000..	334,104	323	(D)	(D)	(D)	(D)	2,638	5,883	21,155	116,648	187,454
	Value added by mfg....do....	844,545	657	(D)	(D)	(D)	(D)	4,565	13,664	70,376	353,092	402,189
	Cost of materials.....do....	997,186	804	(D)	(D)	(D)	(D)	8,590	16,659	78,430	416,685	476,014
	Value of shipments.....do....	1,841,732	1,462	(D)	(D)	(D)	(D)	13,156	30,323	148,806	769,778	878,203
3021	Capital expenditures..do....	67,430	(1)	(D)	(D)	(D)	(D)	(1)	(1)	4,226	31,778	30,870
	Horsepower.....1,000 hp..	834	1	(D)	(D)	(D)	(D)	7	22	75	354	375
	Electricity used..mil. kwh..	1,972	2	(D)	(D)	(D)	(D)	16	32	140	779	1,003
	Rubber footwear:											
	Number of establishments....	22	...	1	...	1	1	3	5	7	2	2
	Total employees.....	18,322	...	497	...	(D)	(D)	(D)	6,464	(D)	11,361	(D)
	Total payroll.....\$1,000..	64,022	...	1,322	...	(D)	(D)	(D)	20,000	(D)	42,697	(D)
	Production workers:											
	Number.....	15,773	...	428	...	(D)	(D)	(D)	5,755	(D)	9,588	(D)
	Man-hours.....1,000..	30,317	...	815	...	(D)	(D)	(D)	10,624	(D)	18,875	(D)
	Wages.....\$1,000..	51,296	...	973	...	(D)	(D)	(D)	16,233	(D)	34,088	(D)
	Value added by mfg....do....	107,027	...	2,201	...	(D)	(D)	(D)	31,462	(D)	73,363	(D)
	Cost of materials.....do....	59,339	...	1,565	...	(D)	(D)	(D)	18,266	(D)	39,505	(D)
3031	Value of shipments.....do....	166,367	...	3,767	...	(D)	(D)	(D)	49,729	(D)	112,868	(D)
	Capital expenditures..do....	4,217	...	(1)	...	(D)	(D)	(D)	951	(D)	3,252	(D)
	Horsepower.....1,000 hp..	55	...	3	...	(D)	(D)	(D)	24	(D)	28	(D)
	Electricity used..mil. kwh..	82	...	3	...	(D)	(D)	(D)	19	(D)	60	(D)
	Reclaimed rubber:											
	Number of establishments....	20	1	...	1	4	4	6	3	1	...	...
	Total employees.....	2,953	169	...	(D)	(D)	1,266	(D)	1,518	(D)	...	...
	Total payroll.....\$1,000..	12,697	646	...	(D)	(D)	5,566	(D)	6,485	(D)	...	...
	Production workers:											
	Number.....	2,460	142	...	(D)	(D)	1,051	(D)	1,267	(D)	...	...
	Man-hours.....1,000..	4,602	278	...	(D)	(D)	2,094	(D)	2,230	(D)	...	...
	Wages.....\$1,000..	9,671	507	...	(D)	(D)	4,198	(D)	4,966	(D)	...	...
3099	Value added by mfg....do....	22,043	918	...	(D)	(D)	10,967	(D)	10,158	(D)	...	...
	Cost of materials.....do....	16,953	1,155	...	(D)	(D)	7,622	(D)	8,176	(D)	...	...
	Value of shipments.....do....	38,996	2,071	...	(D)	(D)	18,589	(D)	18,334	(D)	...	...
	Capital expenditures..do....	2,834	1,682	...	(D)	(D)	518	(D)	634	(D)	...	...
	Horsepower.....1,000 hp..	85	3	...	(D)	(D)	42	(D)	40	(D)	...	...
	Electricity used..mil. kwh..	177	4	...	(D)	(D)	97	(D)	76	(D)	...	...
	Rubber industries, nec:											
	Number of establishments....	1,315	370	202	175	205	130	121	53	38	16	5
	Total employees.....	132,503	4,822	(D)	(D)	6,797	9,051	18,863	18,119	27,370	47,477	(D)
	Total payroll.....\$1,000..	541,011	16,595	(D)	(D)	24,975	34,003	76,670	73,686	112,173	202,907	(D)
	Production workers:											
	Number.....	104,028	3,573	(D)	(D)	5,421	7,267	15,458	14,364	21,147	36,795	(D)
	Man-hours.....1,000..	204,513	6,806	(D)	(D)	10,294	14,299	31,535	28,122	41,846	71,607	(D)
	Wages.....\$1,000..	380,427	10,582	(D)	(D)	15,812	22,543	54,277	52,625	78,754	145,831	(D)
3099	Value added by mfg....do....	930,086	34,942	(D)	(D)	47,200	65,119	135,637	119,430	199,628	328,127	(D)
	Cost of materials.....do....	746,986	36,322	(D)	(D)	43,925	55,411	108,987	89,799	146,499	266,039	(D)
	Value of shipments.....do....	1,677,072	71,265	(D)	(D)	91,126	120,531	244,625	209,229	346,128	594,166	(D)
	Capital expenditures..do....	53,949	3,886	(D)	(D)	2,722	3,155	9,323	7,637	8,611	18,611	(D)
	Horsepower.....1,000 hp..	874	31	(D)	(D)	49	55	127	126	198	288	(D)
	Electricity used..mil. kwh..	1,518	69	(D)	(D)	50	68	165	207	326	633	(D)

See footnotes at end of table.

Table 1.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR MAJOR INDUSTRY GROUPS AND INDUSTRIES: 1954—Con.

Code	Industry group, industry, and item	Total, all estab- lish- ments	Establishments with an average of—									
			1-4 em- ployees	5-9 em- ployees	10-19 em- ployees	20-49 em- ployees	50-99 em- ployees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
31	Leather and leather goods:											
	Number of establishments....	4,845	1,303	644	631	780	507	547	334	87	11	1
	Total employees.....	356,578	3,193	4,609	9,054	25,549	36,398	87,524	116,963	55,671	17,616	(D)
	Total payroll.....\$1,000..	1,027,314	7,125	12,540	25,508	73,309	109,628	249,351	327,275	163,148	59,429	(D)
	Production workers:											
	Number.....	321,161	2,654	3,922	7,810	22,549	32,227	79,290	106,996	50,595	15,117	(D)
	Man-hours.....1,000..	586,857	4,768	7,291	14,503	41,975	59,873	146,302	193,506	90,708	27,930	(D)
	Wages.....\$1,000..	833,694	5,323	9,618	19,658	56,642	85,516	202,657	272,667	136,063	45,549	(D)
	Value added by mfg....do....	1,637,417	18,738	23,258	41,113	109,738	169,379	375,007	546,358	259,232	94,593	(D)
	Cost of materials.....do....	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(D)
	Value of shipments.....do....	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(D)
	Capital expenditures....do....	28,053	837	505	792	1,890	2,773	7,615	8,074	4,141	1,425	(D)
	Horsepower.....1,000 hp..	505	11	2	8	49	52	165	132	60	26	(D)
	Electricity used..mil. kwh..	716	25	9	17	48	74	196	210	99	38	(D)
3111	Leather tanning and finishing:											
	Number of establishments....	579	135	72	74	91	78	87	31	10	1	...
	Total employees.....	43,468	349	512	1,076	2,931	5,495	13,648	11,290	8,164	(D)	...
	Total payroll.....\$1,000..	168,139	1,148	1,846	3,829	10,897	20,303	51,065	46,529	32,520	(D)	...
	Production workers:											
	Number.....	38,662	224	366	850	2,548	4,810	12,295	10,178	7,388	(D)	...
	Man-hours.....1,000..	75,689	436	702	1,606	4,839	9,513	24,141	20,451	13,998	(D)	...
	Wages.....\$1,000..	137,487	598	1,141	2,675	8,134	16,058	41,954	39,021	27,902	(D)	...
	Value added by mfg....do....	264,264	4,635	5,322	6,211	16,075	36,192	72,175	73,817	49,833	(D)	...
	Cost of materials.....do....	441,910	28,276	11,018	15,423	30,666	47,173	135,030	104,883	69,438	(D)	...
	Value of shipments.....do....	706,174	32,911	16,341	21,635	46,742	83,365	207,206	178,701	119,272	(D)	...
	Capital expenditures....do....	7,123	(1)	(1)	(1)	505	626	2,608	2,025	899	(D)	...
	Horsepower.....1,000 hp..	270	10	2	5	18	32	102	64	37	(D)	...
	Electricity used..mil. kwh..	314	19	5	9	18	29	105	78	51	(D)	...
3121	Industrial leather belting:											
	Number of establishments....	136	41	40	21	18	7	5	1	3	...	...
	Total employees.....	4,576	90	268	304	576	3,336	(D)	(D)	(D)	...	...
	Total payroll.....\$1,000..	18,569	250	968	1,121	2,215	14,012	(D)	(D)	(D)	...	...
	Production workers:											
	Number.....	3,342	67	188	213	400	2,471	(D)	(D)	(D)	...	...
	Man-hours.....1,000..	6,513	123	363	409	758	4,858	(D)	(D)	(D)	...	...
	Wages.....\$1,000..	11,484	183	584	627	1,152	8,935	(D)	(D)	(D)	...	...
	Value added by mfg....do....	34,911	517	1,552	1,657	3,350	27,832	(D)	(D)	(D)	...	...
	Cost of materials.....do....	27,253	734	1,558	1,926	2,701	20,332	(D)	(D)	(D)	...	...
	Value of shipments.....do....	62,165	1,251	3,111	3,584	6,052	48,166	(D)	(D)	(D)	...	...
	Capital expenditures....do....	1,955	(1)	(1)	(1)	(1)	1,835	(D)	(D)	(D)	...	...
	Horsepower.....1,000 hp..	7	(2)	(2)	(2)	1	6	(D)	(D)	(D)	...	...
	Electricity used..mil. kwh..	14	2	1	1	1	2	(D)	(D)	(D)	...	...
3131	Footwear cut stock:											
	Number of establishments....	563	127	79	96	137	75	45	3	1	...	...
	Total employees.....	20,059	312	583	1,376	4,490	5,366	6,367	1,562	(D)	...	...
	Total payroll.....\$1,000..	57,113	718	1,558	3,765	12,891	15,744	17,954	4,480	(D)	...	...
	Production workers:											
	Number.....	17,641	249	488	1,163	3,887	4,768	5,670	1,413	(D)	...	...
	Man-hours.....1,000..	32,533	463	922	2,095	7,261	8,613	10,487	2,689	(D)	...	...
	Wages.....\$1,000..	44,231	496	1,179	2,763	9,459	12,041	14,605	3,685	(D)	...	...
	Value added by mfg....do....	87,182	1,631	2,556	6,340	19,869	23,372	28,479	4,935	(D)	...	...
	Cost of materials.....do....	159,187	3,355	4,949	10,040	34,200	35,344	53,748	17,548	(D)	...	...
	Value of shipments.....do....	246,373	4,987	7,506	16,381	54,069	58,716	82,228	22,484	(D)	...	...
	Capital expenditures....do....	3,063	(1)	(1)	(1)	(1)	(1)	576	994	(D)	...	...
	Horsepower.....1,000 hp..	34	(2)	(2)	2	10	9	10	3	(D)	...	...
	Electricity used..mil. kwh..	50	(3)	1	3	10	16	14	6	(D)	...	...
3141	Footwear, except rubber:											
	Number of establishments....	1,196	141	56	68	154	144	286	266	71	9	1
	Total employees.....	219,375	318	413	1,007	5,308	10,623	48,279	93,229	45,775	14,419	(D)
	Total payroll.....\$1,000..	589,267	649	1,084	2,325	13,874	30,115	128,142	242,937	125,104	45,035	(D)
	Production workers:											
	Number.....	199,907	275	363	881	4,797	9,494	43,911	85,810	41,993	12,380	(D)
	Man-hours.....1,000..	356,681	474	617	1,515	8,560	17,106	79,462	152,174	74,560	22,209	(D)
	Wages.....\$1,000..	490,142	543	843	1,872	11,413	24,382	104,721	206,046	106,285	34,034	(D)
	Value added by mfg....do....	940,704	1,331	1,633	3,361	19,092	45,129	192,648	410,489	200,357	66,660	(D)
	Cost of materials.....do....	850,012	1,356	1,292	2,997	21,948	39,084	173,958	370,488	187,297	51,590	(D)
	Value of shipments.....do....	1,790,717	2,687	2,925	6,359	41,041	84,214	366,607	780,978	387,654	118,250	(D)
	Capital expenditures....do....	11,420	(1)	(1)	(1)	(1)	903	2,872	4,462	1,852	593	(D)
	Horsepower.....1,000 hp..	160	1	(2)	(2)	5	6	43	61	31	13	(D)
	Electricity used..mil. kwh..	266	3	(3)	1	9	12	55	111	55	20	(D)

See footnotes at end of table.

SIZE OF ESTABLISHMENTS

Table 1.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR MAJOR INDUSTRY GROUPS AND INDUSTRIES: 1954—Con.

Code	Industry group, industry, and item	Total, all estab- lish- ments	Establishments with an average of—									
			1-4 em- ployees	5-9 em- ployees	10-19 employees	20-49 em- ployees	50-99 em- ployees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
3142	House slippers:											
	Number of establishments....	173	32	15	27	35	32	24	7	1	...	...
	Total employees.....	10,879	76	109	419	1,226	2,333	3,861	2,852	(D)	...	...
	Total payroll.....\$1,000..	30,065	118	234	1,098	3,283	6,351	10,266	8,713	(D)	...	...
	Production workers:											
	Number.....	9,661	65	96	376	1,102	2,091	3,457	2,471	(D)	...	...
	Man-hours.....1,000..	16,773	101	147	671	1,926	3,559	6,045	4,322	(D)	...	...
	Wages.....\$1,000..	22,911	95	171	901	2,653	4,814	7,937	6,337	(D)	...	...
	Value added by mfg....do....	45,050	250	331	1,762	5,003	9,202	14,767	13,732	(D)	...	...
	Cost of materials.....do....	45,416	236	514	1,519	5,115	9,912	17,365	10,752	(D)	...	...
	Value of shipments.....do....	90,466	486	846	3,282	10,119	19,115	32,133	24,484	(D)	...	...
	Capital expenditures..do....	663	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(D)	...	...
	Horsepower.....1,000 hp..	5	...	(2)	(2)	(2)	1	2	2	(D)	...	...
	Electricity used..mil. kwh..	14	...	(3)	(3)	1	3	5	2	(D)	...	...
3151	Leather dress gloves:											
	Number of establishments....	143	54	18	16	30	15	8	1	1	...	...
	Total employees.....	4,438	129	133	206	1,039	996	1,932	(D)	(D)	...	...
	Total payroll.....\$1,000..	9,739	224	254	411	2,263	2,187	4,399	(D)	(D)	...	...
	Production workers:											
	Number.....	3,969	113	125	191	937	868	1,732	(D)	(D)	...	...
	Man-hours.....1,000..	6,518	172	191	303	1,494	1,531	2,825	(D)	(D)	...	...
	Wages.....\$1,000..	7,642	184	238	357	1,873	1,712	3,275	(D)	(D)	...	...
	Value added by mfg....do....	13,559	477	471	631	3,070	3,104	5,805	(D)	(D)	...	...
	Cost of materials.....do....	14,871	496	412	774	3,198	3,688	6,299	(D)	(D)	...	...
	Value of shipments.....do....	28,430	974	884	1,405	6,269	6,792	12,105	(D)	(D)	...	...
	Capital expenditures..do....	(1)	(1)	...	(1)	(1)	(1)	(1)	(D)	(D)	...	...
	Horsepower.....1,000 hp..	1	(2)	(2)	(2)	(2)	(2)	(2)	(D)	(D)	...	...
	Electricity used..mil. kwh..	2	(3)	(3)	(3)	(3)	1	1	(D)	(D)	...	...
3152	Leather work gloves:											
	Number of establishments....	96	25	17	19	21	9	5	...	...	...	...
	Total employees.....	2,479	60	125	272	649	652	719	...	...	...	...
	Total payroll.....\$1,000..	5,834	109	239	654	1,749	1,558	1,522	...	...	...	...
	Production workers:											
	Number.....	2,212	53	109	233	564	586	665	...	...	...	...
	Man-hours.....1,000..	3,915	87	162	419	1,005	1,058	1,182	...	...	...	...
	Wages.....\$1,000..	4,702	87	197	544	1,306	1,259	1,307	...	...	...	...
	Value added by mfg....do....	9,626	268	381	951	2,430	2,771	2,823	...	...	...	...
	Cost of materials.....do....	8,144	254	396	785	2,236	2,136	2,335	...	...	...	...
	Value of shipments.....do....	17,771	522	778	1,737	4,667	4,908	5,158	...	...	...	...
	Capital expenditures..do....	(1)	...	(1)	(1)	(1)	(1)	(1)	...	...	...	...
	Horsepower.....1,000 hp..	1	(2)	(2)	(2)	1	(2)	(2)	...	...	...	...
	Electricity used..mil. kwh..	1	(3)	(3)	(3)	(3)	(3)	1	...	...	...	...
3161	Luggage:											
	Number of establishments....	497	152	97	89	81	47	23	7	...	1	...
	Total employees.....	15,856	406	701	1,278	2,563	3,320	3,565	4,020	...	(D)	...
	Total payroll.....\$1,000..	51,679	886	1,955	3,972	8,170	10,776	10,719	15,198	...	(D)	...
	Production workers:											
	Number.....	13,960	366	629	1,135	2,228	2,942	3,205	3,451	...	(D)	...
	Man-hours.....1,000..	27,417	679	1,214	2,263	4,217	5,791	6,005	7,246	...	(D)	...
	Wages.....\$1,000..	39,753	771	1,662	3,221	6,197	8,466	8,288	11,145	...	(D)	...
	Value added by mfg....do....	89,385	1,915	3,219	6,228	12,444	17,432	17,395	30,748	...	(D)	...
	Cost of materials.....do....	79,516	2,143	3,671	6,758	12,446	16,939	16,812	20,745	...	(D)	...
	Value of shipments.....do....	168,902	4,059	6,890	12,987	24,890	34,372	34,208	51,495	...	(D)	...
	Capital expenditures..do....	1,868	(1)	(1)	(1)	(1)	(1)	703	633	...	(D)	...
	Horsepower.....1,000 hp..	18	(2)	(2)	1	10	2	2	3	...	(D)	...
	Electricity used..mil. kwh..	25	(3)	1	1	3	5	5	10	...	(D)	...
3171	Handbags and purses:											
	Number of establishments....	714	221	116	130	120	70	43	14	...	...	...
	Total employees.....	22,881	582	805	1,860	3,962	4,970	6,217	4,483	...	...	...
	Total payroll.....\$1,000..	61,405	1,252	2,036	4,844	10,375	14,128	16,562	12,206	...	...	...
	Production workers:											
	Number.....	20,911	491	702	1,667	3,606	4,491	5,802	4,149	...	...	...
	Man-hours.....1,000..	39,942	890	1,375	3,185	7,082	8,353	11,105	7,951	...	...	...
	Wages.....\$1,000..	49,620	988	1,669	4,005	8,699	10,992	13,628	9,638	...	...	...
	Value added by mfg....do....	92,968	3,434	3,754	7,999	15,423	20,129	24,274	17,953	...	...	...
	Cost of materials.....do....	95,814	3,612	4,520	8,064	16,769	21,180	23,379	18,286	...	...	...
	Value of shipments.....do....	188,782	7,047	8,275	16,064	32,192	41,310	47,654	36,239	...	...	...
	Capital expenditures..do....	972	(1)	(1)	(1)	(1)	(1)	(1)	(1)	...	...	...
	Horsepower.....1,000 hp..	4	(2)	(2)	(2)	1	1	1	1	...	...	...
	Electricity used..mil. kwh..	19	1	1	1	3	4	5	4	...	...	...

See footnotes at end of table.

Table 1.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR MAJOR INDUSTRY GROUPS AND INDUSTRIES: 1954—Con.

Code	Industry group, industry, and item	Total, all estab- lish- ments	Establishments with an average of—									
			1-4 em- ployees	5-9 em- ployees	10-19 em- ployees	20-49 em- ployees	50-99 em- ployees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
3172	Small leather goods:											
	Number of establishments....	259	100	64	30	37	11	13	4	...	...	...
	Total employees.....	6,663	230	454	413	1,200	823	1,954	1,587	...	...	...
	Total payroll.....\$1,000..	19,029	449	1,044	1,158	2,995	2,400	5,072	5,910	...	...	...
	Production workers:											
	Number.....	5,782	215	429	374	1,060	705	1,768	1,229	...	...	...
	Man-hours.....1,000..	11,035	402	801	698	2,033	1,378	3,283	2,439	...	...	...
	Wages.....\$1,000..	13,326	379	928	887	2,250	1,719	3,875	3,286	...	...	...
	Value added by mfg....do....	32,549	1,094	1,889	2,009	5,022	3,552	7,992	10,988	...	...	...
	Cost of materials.....do....	24,706	770	2,046	1,704	4,088	3,067	6,264	6,765	...	...	...
	Value of shipments.....do....	57,256	1,864	3,936	3,713	9,111	6,620	14,257	17,754	...	...	...
	Capital expenditures.....do....	522	(1)	(1)	(1)	(1)	(1)	(1)	(1)	...	...	...
	Horsepower.....1,000 hp..	3	...	(2)	(2)	(2)	(2)	3	(2)	...	...	...
	Electricity used..mil. kwh..	5	(3)	(3)	(3)	1	1	1	2	...	...	...
3192	Saddlery, harness, and whips:											
	Number of establishments....	106	62	17	12	9	4	2	...	...	...	...
	Total employees.....	1,289	135	129	153	278	593	(D)	...	...	...	...
	Total payroll.....\$1,000..	3,533	286	362	482	758	1,645	(D)	...	...	...	...
	Production workers:											
	Number.....	1,113	108	97	122	246	538	(D)	...	...	...	...
	Man-hours.....1,000..	2,168	190	192	230	511	1,043	(D)	...	...	...	...
	Wages.....\$1,000..	2,690	201	248	337	566	1,336	(D)	...	...	...	...
	Value added by mfg....do....	5,116	631	448	628	1,241	2,166	(D)	...	...	...	...
	Cost of materials.....do....	5,726	593	571	607	1,138	2,815	(D)	...	...	...	...
	Value of shipments.....do....	10,842	1,224	1,020	1,236	2,380	4,981	(D)	...	...	...	...
	Capital expenditures.....do....	(1)	(1)	(1)	(1)	(1)	(1)	(D)	...	...	...	...
	Horsepower.....1,000 hp..	1	(2)	(2)	(2)	1	(2)	(D)	...	...	...	...
	Electricity used..mil. kwh..	1	(3)	(3)	(3)	(3)	1	(D)	...	...	...	...
3199	Leather goods, nec:											
	Number of establishments....	383	213	53	49	47	15	6	...	...	...	...
	Total employees.....	4,611	506	377	690	1,327	1,003	707	...	...	...	...
	Total payroll.....\$1,000..	12,938	1,036	960	1,849	3,839	3,035	2,217	...	...	...	...
	Production workers:											
	Number.....	3,996	428	330	605	1,174	835	621	...	...	...	...
	Man-hours.....1,000..	7,667	751	605	1,109	2,289	1,714	1,196	...	...	...	...
	Wages.....\$1,000..	9,702	798	758	1,469	2,940	2,091	1,644	...	...	...	...
	Value added by mfg....do....	22,095	2,555	1,702	3,336	6,719	4,307	3,474	...	...	...	...
	Cost of materials.....do....	17,875	2,369	1,451	2,983	4,898	3,949	2,223	...	...	...	...
	Value of shipments.....do....	39,970	4,925	3,154	6,319	11,618	8,256	5,698	...	...	...	...
	Capital expenditures.....do....	280	(1)	(1)	(1)	(1)	(1)	(1)	...	...	...	...
	Horsepower.....1,000 hp..	1	(2)	(2)	(2)	1	(2)	(2)	...	...	...	...
	Electricity used..mil. kwh..	5	(3)	(3)	1	2	1	1	...	...	...	...
32	Stone, clay, and glass products:											
	Number of establishments....	11,162	4,287	1,883	1,659	1,546	770	613	262	83	52	7
	Total employees.....	491,814	10,398	13,371	23,723	49,440	53,548	97,657	89,207	56,645	74,386	23,427
	Total payroll.....\$1,000..	1,938,085	24,749	40,242	80,782	179,279	203,723	378,148	360,926	225,774	334,695	109,711
	Production workers:											
	Number.....	412,031	8,389	10,845	18,793	40,511	44,724	83,953	75,835	48,551	63,502	16,876
	Man-hours.....1,000..	827,012	15,733	21,348	37,391	81,909	92,433	169,182	153,708	94,168	127,319	33,748
	Wages.....\$1,000..	1,496,029	19,176	30,299	56,481	126,842	150,201	298,480	284,130	181,042	273,196	76,103
	Value added by mfg....do....	3,821,659	51,758	73,742	148,345	324,900	347,608	784,132	787,673	443,255	668,306	191,863
	Cost of materials.....do....	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)
	Value of shipments.....do....	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)
	Capital expenditures.....do....	300,647	8,364	8,322	11,923	24,542	30,877	67,884	57,931	24,101	55,585	11,031
	Horsepower.....1,000 hp..	4,811	74	48	138	415	426	1,327	1,277	433	541	132
	Electricity used..mil. kwh..	11,573	178	71	138	349	563	3,533	3,422	1,317	1,535	467
3211	Flat glass:											
	Number of establishments....	32	...	...	2	2	3	4	6	7	7	1
	Total employees.....	24,559	...	...	89	(D)	805	(D)	2,386	5,458	15,819	(D)
	Total payroll.....\$1,000..	132,509	...	...	318	(D)	3,151	(D)	11,670	25,562	91,806	(D)
	Production workers:											
	Number.....	21,389	...	...	69	(D)	698	(D)	2,100	4,762	13,758	(D)
	Man-hours.....1,000..	44,344	...	...	153	(D)	1,432	(D)	4,315	9,066	29,376	(D)
	Wages.....\$1,000..	114,966	...	...	211	(D)	2,638	(D)	10,751	21,959	79,405	(D)
	Value added by mfg....do....	252,313	...	...	560	(D)	5,018	(D)	20,054	44,485	182,194	(D)
	Cost of materials.....do....	118,189	...	...	231	(D)	2,709	(D)	7,311	18,536	89,400	(D)
	Value of shipments.....do....	370,503	...	...	793	(D)	7,728	(D)	27,365	63,021	271,594	(D)
	Capital expenditures.....do....	30,964	...	...	(1)	(D)	(1)	(D)	764	1,800	28,251	(D)
	Horsepower.....1,000 hp..	224	...	...	(2)	(D)	4	(D)	18	26	176	(D)
	Electricity used..mil. kwh..	627	...	...	(3)	(D)	13	(D)	21	67	526	(D)

See footnotes at end of table.

SIZE OF ESTABLISHMENTS

203-57

Table 1.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR MAJOR INDUSTRY GROUPS AND INDUSTRIES: 1954—Con.

Code	Industry group, industry, and item	Total, all estab- lish- ments	Establishments with an average of—									
			1-4 em- ployees	5-9 em- ployees	10-19 em- ployees	20-49 em- ployees	50-99 em- ployees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
3221	Glass containers:											
	Number of establishments....	85	...	1	1	...	2	22	24	19	15	1
	Total employees.....	49,410	...	<u>166</u>	(D)	...	(D)	4,268	8,185	13,256	<u>23,533</u>	(D)
	Total payroll.....\$1,000..	195,944	...	<u>586</u>	(D)	...	(D)	16,415	31,549	52,439	<u>94,953</u>	(D)
	Production workers:											
	Number.....	44,076	...	<u>154</u>	(D)	...	(D)	3,878	7,345	11,866	<u>20,831</u>	(D)
	Man-hours.....1,000..	87,672	...	<u>297</u>	(D)	...	(D)	7,849	14,505	24,016	<u>41,003</u>	(D)
	Wages.....\$1,000..	166,107	...	<u>501</u>	(D)	...	(D)	14,152	26,645	44,516	<u>80,291</u>	(D)
	Value added by mfg....do....	377,161	...	<u>575</u>	(D)	...	(D)	28,775	55,437	102,387	<u>189,986</u>	(D)
	Cost of materials.....do....	257,959	...	<u>858</u>	(D)	...	(D)	24,962	43,246	67,810	<u>121,081</u>	(D)
	Value of shipments.....do....	635,121	...	<u>1,433</u>	(D)	...	(D)	53,737	98,684	170,197	<u>311,067</u>	(D)
	Capital expenditures..do....	26,542	...	<u>1,459</u>	(D)	...	(D)	1,629	2,942	5,965	<u>14,545</u>	(D)
	Horsepower.....1,000 hp..	276	...	<u>1</u>	(D)	...	(D)	24	42	76	<u>133</u>	(D)
	Electricity used..mil. kwh..	1,042	...	<u>4</u>	(D)	...	(D)	82	229	261	<u>466</u>	(D)
3229	Pressed and blown glass, nec:											
	Number of establishments....	287	92	30	37	30	26	32	18	13	7	2
	Total employees.....	41,924	218	202	518	970	1,846	5,363	6,736	8,770	<u>17,298</u>	(D)
	Total payroll.....\$1,000..	158,623	611	602	1,744	2,924	6,107	18,153	23,774	31,579	<u>73,128</u>	(D)
	Production workers:											
	Number.....	35,006	192	179	436	843	1,630	4,725	5,910	7,632	<u>13,455</u>	(D)
	Man-hours.....1,000..	66,673	342	327	835	1,442	3,042	8,174	11,164	14,853	<u>26,491</u>	(D)
	Wages.....\$1,000..	121,776	479	474	1,359	2,206	4,856	14,530	19,187	26,664	<u>52,017</u>	(D)
	Value added by mfg....do....	297,221	1,454	945	2,608	4,483	9,949	33,170	43,644	69,490	<u>131,474</u>	(D)
	Cost of materials.....do....	114,100	750	474	1,446	2,112	5,199	12,774	16,756	28,929	<u>45,658</u>	(D)
	Value of shipments.....do....	411,322	2,205	1,419	4,055	6,596	15,149	45,944	60,401	98,419	<u>177,132</u>	(D)
	Capital expenditures..do....	10,875	(1)	(1)	(1)	(1)	(1)	891	1,459	3,052	<u>4,622</u>	(D)
	Horsepower.....1,000 hp..	164	5	(2)	(2)	1	5	14	19	33	<u>87</u>	(D)
	Electricity used..mil. kwh..	512	43	2	4	2	9	34	68	143	<u>207</u>	(D)
3231	Products of purchased glass:											
	Number of establishments....	859	382	170	125	91	51	29	7	1	3	...
	Total employees.....	21,614	920	1,175	1,781	2,877	3,488	4,464	6,905	(D)	(D)	...
	Total payroll.....\$1,000..	87,529	2,362	3,835	6,405	9,759	11,910	16,083	<u>37,172</u>	(D)	(D)	...
	Production workers:											
	Number.....	18,203	727	954	1,450	2,405	2,947	3,821	5,894	(D)	(D)	...
	Man-hours.....1,000..	36,377	1,341	1,799	2,731	4,421	5,891	7,546	<u>12,645</u>	(D)	(D)	...
	Wages.....\$1,000..	68,285	1,753	2,854	4,500	7,069	8,610	12,003	<u>31,493</u>	(D)	(D)	...
	Value added by mfg....do....	192,644	5,273	6,807	10,876	16,100	18,494	26,609	<u>108,483</u>	(D)	(D)	...
	Cost of materials.....do....	179,738	4,074	5,556	8,349	14,445	21,925	26,266	<u>99,119</u>	(D)	(D)	...
	Value of shipments.....do....	372,383	9,348	12,363	19,226	30,545	40,420	52,876	<u>207,602</u>	(D)	(D)	...
	Capital expenditures..do....	5,590	(1)	(1)	(1)	616	1,057	1,036	<u>2,142</u>	(D)	(D)	...
	Horsepower.....1,000 hp..	64	1	2	1	5	6	8	<u>41</u>	(D)	(D)	...
	Electricity used..mil. kwh..	188	6	3	6	11	17	25	<u>120</u>	(D)	(D)	...
3241	Cement, hydraulic:											
	Number of establishments....	162	...	...	2	7	7	83	54	7	2	...
	Total employees.....	39,769	...	...	<u>261</u>	(D)	543	15,837	17,093	6,034	(D)	...
	Total payroll.....\$1,000..	167,659	...	...	<u>1,014</u>	(D)	2,370	65,612	71,563	<u>27,099</u>	(D)	...
	Production workers:											
	Number.....	34,036	...	...	<u>225</u>	(D)	414	13,713	14,711	4,971	(D)	...
	Man-hours.....1,000..	70,839	...	...	<u>497</u>	(D)	885	28,223	30,780	<u>10,453</u>	(D)	...
	Wages.....\$1,000..	134,777	...	...	<u>838</u>	(D)	1,625	53,704	57,435	<u>21,174</u>	(D)	...
	Value added by mfg....do....	528,920	...	...	<u>2,057</u>	(D)	6,474	213,812	222,980	<u>83,596</u>	(D)	...
	Cost of materials.....do....	282,204	...	...	<u>3,138</u>	(D)	5,998	117,220	112,098	<u>43,747</u>	(D)	...
	Value of shipments.....do....	811,125	...	...	<u>5,196</u>	(D)	12,473	331,032	335,078	<u>127,344</u>	(D)	...
	Capital expenditures..do....	73,015	...	...	(1)	(D)	681	35,306	28,136	<u>8,692</u>	(D)	...
	Horsepower.....1,000 hp..	1,771	...	...	<u>12</u>	(D)	22	711	774	<u>252</u>	(D)	...
	Electricity used..mil. kwh..	5,727	...	...	<u>20</u>	(D)	46	2,432	2,313	<u>916</u>	(D)	...
3251	Brick and hollow tile:											
	Number of establishments....	610	49	36	66	209	178	64	8	...	...	...
	Total employees.....	32,426	106	275	1,003	7,256	12,121	8,968	2,697	...	...	...
	Total payroll.....\$1,000..	114,740	258	694	2,792	23,132	43,657	35,373	8,833	...	...	...
	Production workers:											
	Number.....	28,751	93	243	894	6,381	10,726	8,025	2,386	...	...	...
	Man-hours.....1,000..	61,048	171	475	1,823	13,285	23,143	17,001	5,148	...	...	...
	Wages.....\$1,000..	93,114	202	556	2,322	18,378	35,289	29,294	7,071	...	...	...
	Value added by mfg....do....	183,312	402	957	4,147	37,913	69,225	56,635	14,031	...	...	...
	Cost of materials.....do....	67,099	220	492	1,502	12,511	26,886	20,913	4,574	...	...	...
	Value of shipments.....do....	250,411	622	1,449	5,649	50,424	96,111	77,548	18,606	...	...	...
	Capital expenditures..do....	16,233	(1)	(1)	(1)	4,038	6,373	4,418	945	...	...	...
	Horsepower.....1,000 hp..	300	4	2	10	69	105	91	19	...	...	...
	Electricity used..mil. kwh..	389	2	2	7	69	163	116	30	...	...	...

See footnotes at end of table.

MANUFACTURES—SUMMARY STATISTICS

Table 1.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR MAJOR INDUSTRY GROUPS AND INDUSTRIES: 1954—Con.

Code	Industry group, industry, and item	Total, all estab- lish- ments	Establishments with an average of—									
			1-4 em- ployees	5-9 em- ployees	10-19 em- ployees	20-49 em- ployees	50-99 em- ployees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
3253	Floor and wall tile:											
	Number of establishments....	49	4	3	2	8	6	13	9	1	3	...
	Total employees.....	11,265	11	40	(D)	288	488	1,974	4,303	(D)	4,159	...
	Total payroll.....\$1,000..	43,488	22	94	(D)	892	1,769	6,889	16,841	(D)	16,979	...
	Production workers:											
	Number.....	9,627	9	34	(D)	259	440	1,716	3,749	(D)	3,416	...
	Man-hours.....1,000..	19,706	15	73	(D)	506	914	3,530	7,650	(D)	7,015	...
	Wages.....\$1,000..	33,718	19	103	(D)	659	1,479	5,400	13,233	(D)	12,819	...
	Value added by mfg....do....	70,606	28	109	(D)	1,795	3,095	11,216	29,382	(D)	24,979	...
	Cost of materials.....do....	26,727	25	117	(D)	678	1,586	6,434	9,184	(D)	8,702	...
	Value of shipments.....do....	97,334	53	226	(D)	2,473	4,682	17,650	38,566	(D)	33,681	...
	Capital expenditures.....do....	4,579	(2)	(1)	(D)	(1)	(1)	552	1,904	(D)	1,840	...
	Horsepower.....1,000 hp..	29	(2)	(2)	(D)	1	1	5	10	(D)	12	...
	Electricity used..mil. kwh..	61	(3)	(3)	(D)	1	2	11	20	(D)	27	...
3254	Sewer pipe:											
	Number of establishments....	66	...	...	2	6	12	40	6	...	...	...
	Total employees.....	9,637	...	...	265	(D)	1,040	6,268	2,064	...	...	...
	Total payroll.....\$1,000..	35,446	...	...	992	(D)	3,961	22,646	7,847	...	...	...
	Production workers:											
	Number.....	8,686	...	...	241	(D)	895	5,788	1,762	...	...	...
	Man-hours.....1,000..	17,171	...	...	522	(D)	1,897	11,433	3,319	...	...	...
	Wages.....\$1,000..	29,615	...	...	836	(D)	3,271	19,492	6,016	...	...	...
	Value added by mfg....do....	55,293	...	...	2,125	(D)	6,323	32,807	14,037	...	...	...
	Cost of materials.....do....	18,637	...	...	511	(D)	2,334	11,819	3,970	...	...	...
	Value of shipments.....do....	73,930	...	...	2,637	(D)	8,658	44,627	18,007	...	...	...
	Capital expenditures.....do....	3,118	...	...	(1)	(D)	424	1,436	976	...	...	...
	Horsepower.....1,000 hp..	52	...	...	2	(D)	7	32	11	...	...	...
	Electricity used..mil. kwh..	62	...	...	1	(D)	7	39	15	...	...	...
3255	Clay refractories:											
	Number of establishments....	177	17	12	15	46	38	41	5	2	1	...
	Total employees.....	14,463	46	98	210	1,550	2,897	5,601	1,670	2,389	(D)	...
	Total payroll.....\$1,000..	55,604	109	376	723	5,776	10,605	21,474	6,555	9,983	(D)	...
	Production workers:											
	Number.....	12,204	40	77	175	1,335	2,587	4,799	1,389	1,799	(D)	...
	Man-hours.....1,000..	22,783	67	142	285	2,453	4,328	8,931	2,858	3,717	(D)	...
	Wages.....\$1,000..	43,006	88	232	465	4,550	8,773	17,059	5,323	6,513	(D)	...
	Value added by mfg....do....	88,753	349	568	1,133	9,765	16,764	33,601	9,873	16,696	(D)	...
	Cost of materials.....do....	47,616	472	594	590	4,331	8,462	18,269	6,649	8,246	(D)	...
	Value of shipments.....do....	136,369	822	1,163	1,724	14,097	25,226	51,871	16,522	24,942	(D)	...
	Capital expenditures.....do....	5,702	(1)	(1)	(1)	(1)	2,123	1,821	(1)	535	(D)	...
	Horsepower.....1,000 hp..	128	5	1	2	16	29	49	10	16	(D)	...
	Electricity used..mil. kwh..	140	11	1	2	10	23	54	10	29	(D)	...
3259	Structural clay products, nec:											
	Number of establishments....	151	41	21	24	33	20	11	1	...	...	...
	Total employees.....	5,022	118	155	360	1,140	1,369	1,878	(D)	...	...	...
	Total payroll.....\$1,000..	17,887	277	404	1,018	4,087	5,327	6,772	(D)	...	...	...
	Production workers:											
	Number.....	4,296	103	142	316	1,005	1,100	1,628	(D)	...	...	...
	Man-hours.....1,000..	9,054	200	299	666	2,140	2,391	3,355	(D)	...	...	...
	Wages.....\$1,000..	14,385	227	365	854	3,228	4,050	5,658	(D)	...	...	...
	Value added by mfg....do....	27,391	503	748	1,768	6,169	7,642	10,558	(D)	...	...	...
	Cost of materials.....do....	9,008	215	242	540	1,975	2,962	3,072	(D)	...	...	...
	Value of shipments.....do....	36,400	719	991	2,309	8,145	10,604	13,630	(D)	...	...	...
	Capital expenditures.....do....	1,928	(1)	(1)	(1)	(1)	902	(1)	(D)	...	...	...
	Horsepower.....1,000 hp..	40	(2)	1	4	10	14	11	(D)	...	...	...
	Electricity used..mil. kwh..	39	1	1	2	8	13	14	(D)	...	...	...
3261	Vitreous plumbing fixtures:											
	Number of establishments....	37	1	...	3	...	6	16	8	2	1	...
	Total employees.....	9,200	37	...	(D)	...	483	2,924	3,023	2,732	(D)	...
	Total payroll.....\$1,000..	40,541	128	...	(D)	...	1,775	12,266	14,392	11,979	(D)	...
	Production workers:											
	Number.....	7,785	30	...	(D)	...	419	2,526	2,546	2,263	(D)	...
	Man-hours.....1,000..	15,676	60	...	(D)	...	886	5,021	5,241	4,467	(D)	...
	Wages.....\$1,000..	32,987	76	...	(D)	...	1,394	10,100	11,875	9,541	(D)	...
	Value added by mfg....do....	76,740	387	...	(D)	...	2,883	21,459	30,556	21,454	(D)	...
	Cost of materials.....do....	39,526	209	...	(D)	...	1,470	14,903	14,250	8,692	(D)	...
	Value of shipments.....do....	116,267	597	...	(D)	...	4,353	36,362	44,806	30,147	(D)	...
	Capital expenditures.....do....	1,061	(1)	...	(D)	...	(1)	(1)	(1)	(1)	(D)	...
	Horsepower.....1,000 hp..	28	1	...	(D)	...	1	7	11	8	(D)	...
	Electricity used..mil. kwh..	65	2	...	(D)	...	2	17	27	17	(D)	...

See footnotes at end of table.

SIZE OF ESTABLISHMENTS

203-59

Table 1:—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR MAJOR INDUSTRY GROUPS AND INDUSTRIES: 1954—Con.

Code	Industry group, industry, and item	Total, all estab- lish- ments	Establishments with an average of—									
			1-4 em- ployees	5-9 em- ployees	10-19 em- ployees	20-49 em- ployees	50-99 em- ployees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
3262	Vitreous-china food utensils:											
	Number of establishments....	34	1	2	2	5	4	10	4	5	1	...
	Total employees.....	8,704	49	(D)	(D)	153	234	1,895	1,443	4,928	(D)	...
	Total payroll.....\$1,000..	28,161	139	(D)	(D)	385	687	6,084	4,334	16,530	(D)	...
	Production workers:											
	Number.....	7,693	45	(D)	(D)	142	208	1,707	1,330	4,259	(D)	...
	Man-hours.....1,000..	14,061	77	(D)	(D)	260	405	3,092	2,251	7,973	(D)	...
	Wages.....\$1,000..	22,622	126	(D)	(D)	337	536	5,070	3,685	12,865	(D)	...
	Value added by mfg....do....	36,184	242	(D)	(D)	534	1,189	7,052	4,759	22,406	(D)	...
	Cost of materials.....do....	8,294	35	(D)	(D)	104	223	2,152	1,622	4,136	(D)	...
	Value of shipments.....do....	44,478	298	(D)	(D)	639	1,412	9,204	6,381	26,542	(D)	...
	Capital expenditures.....do....	1,333	(1)	(D)	(D)	(1)	(1)	922	(1)	(1)	(D)	...
	Horsepower.....1,000 hp..	17	(2)	(D)	(D)	(2)	1	4	2	10	(D)	...
	Electricity used..mil. kwh..	32	(3)	(D)	(D)	(3)	1	8	4	12	(D)	...
3263	Earthenware food utensils:											
	Number of establishments....	47	4	3	4	3	5	9	10	7	2	...
	Total employees.....	13,335	7	20	56	77	307	1,438	3,384	8,044	(D)	...
	Total payroll.....\$1,000..	38,742	10	48	206	173	885	4,060	9,929	23,429	(D)	...
	Production workers:											
	Number.....	12,333	6	19	48	67	267	1,301	3,072	7,551	(D)	...
	Man-hours.....1,000..	19,467	11	31	85	105	498	2,026	4,987	11,721	(D)	...
	Wages.....\$1,000..	32,468	9	48	160	131	711	3,270	8,336	19,800	(D)	...
	Value added by mfg....do....	49,751	29	72	272	256	1,370	5,247	13,183	29,319	(D)	...
	Cost of materials.....do....	16,669	9	17	43	199	414	1,833	3,599	10,552	(D)	...
	Value of shipments.....do....	66,421	39	90	316	456	1,785	7,080	16,782	39,871	(D)	...
	Capital expenditures.....do....	528	...	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(D)	...
	Horsepower.....1,000 hp..	15	2	(2)	(2)	(2)	1	2	5	3	(D)	...
	Electricity used..mil. kwh..	40	5	(3)	(3)	(3)	1	4	10	20	(D)	...
3264	Porcelain electrical supplies:											
	Number of establishments....	45	1	2	5	6	5	15	6	3	2	...
	Total employees.....	9,550	18	(D)	71	203	376	2,394	2,142	4,344	(D)	...
	Total payroll.....\$1,000..	37,679	47	(D)	180	592	1,145	9,066	8,195	18,452	(D)	...
	Production workers:											
	Number.....	7,990	16	(D)	63	180	328	2,021	1,778	3,601	(D)	...
	Man-hours.....1,000..	15,847	33	(D)	118	370	651	3,999	3,523	7,150	(D)	...
	Wages.....\$1,000..	28,629	42	(D)	145	466	890	6,859	6,032	14,191	(D)	...
	Value added by mfg....do....	54,675	85	(D)	309	898	1,583	12,749	10,589	28,460	(D)	...
	Cost of materials.....do....	23,221	27	(D)	120	275	311	5,408	5,897	11,181	(D)	...
	Value of shipments.....do....	77,896	113	(D)	429	1,173	1,894	18,157	16,486	39,642	(D)	...
	Capital expenditures.....do....	5,357	2,136	(D)	35	23	36	442	901	1,781	(D)	...
	Horsepower.....1,000 hp..	39	(2)	(D)	(2)	1	3	10	11	14	(D)	...
	Electricity used..mil. kwh..	62	(3)	(D)	(3)	(3)	1	12	15	34	(D)	...
3265	China decorating for the trade:											
	Number of establishments....	50	28	10	8	3	...	1	...	...	...	...
	Total employees.....	497	54	78	108	256	...	(D)	...	...	...	...
	Total payroll.....\$1,000..	1,304	119	239	366	579	...	(D)	...	...	...	...
	Production workers:											
	Number.....	437	48	68	91	228	...	(D)	...	...	...	...
	Man-hours.....1,000..	864	92	138	176	455	...	(D)	...	...	...	...
	Wages.....\$1,000..	1,033	97	193	230	510	...	(D)	...	...	...	...
	Value added by mfg....do....	2,148	255	445	585	861	...	(D)	...	...	...	...
	Cost of materials.....do....	1,630	199	153	227	1,050	...	(D)	...	...	...	...
	Value of shipments.....do....	3,779	454	599	812	1,912	...	(D)	...	...	...	...
	Capital expenditures.....do....	(1)	(1)	(1)	(1)	(1)	...	(D)	...	...	...	...
	Horsepower.....1,000 hp..	(2)	(2)	(2)	(2)	(2)	...	(D)	...	...	...	...
	Electricity used..mil. kwh..	1	(3)	(3)	1	(3)	...	(D)	...	...	...	...
3269	Pottery products, nec:											
	Number of establishments....	654	380	100	62	59	35	16	1	...	...	...
	Total employees.....	9,647	826	695	888	1,816	2,427	2,992	(D)	...	...	...
	Total payroll.....\$1,000..	27,134	1,486	1,650	2,156	4,926	7,246	9,668	(D)	...	...	...
	Production workers:											
	Number.....	8,521	727	633	795	1,607	2,152	2,604	(D)	...	...	...
	Man-hours.....1,000..	16,313	1,258	1,113	1,416	3,141	4,175	5,207	(D)	...	...	...
	Wages.....\$1,000..	21,536	1,244	1,383	1,833	3,981	5,816	7,276	(D)	...	...	...
	Value added by mfg....do....	40,562	3,254	2,909	3,468	7,845	10,762	12,322	(D)	...	...	...
	Cost of materials.....do....	14,770	1,846	1,141	1,260	3,619	3,264	3,637	(D)	...	...	...
	Value of shipments.....do....	55,333	5,101	4,050	4,728	11,465	14,027	15,960	(D)	...	...	...
	Capital expenditures.....do....	2,321	(1)	(1)	(1)	(1)	795	767	(D)	...	...	...
	Horsepower.....1,000 hp..	12	1	(2)	(2)	3	4	4	(D)	...	...	...
	Electricity used..mil. kwh..	31	2	2	2	5	10	10	(D)	...	...	...

See footnotes at end of table.

Table 1.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR MAJOR INDUSTRY GROUPS AND INDUSTRIES: 1954—Con.

Code	Industry group, industry, and item	Total, all estab- lish- ments	Establishments with an average of—									
			1-4 em- ployees	5-9 em- ployees	10-19 em- ployees	20-49 em- ployees	50-99 em- ployees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
3271	Concrete products:											
	Number of establishments....	5,090	2,441	1,013	862	580	155	34	4	1	...	...
	Total employees.....	60,410	5,961	7,149	12,315	17,916	10,367	4,752	1,947	(D)	...	...
	Total payroll.....\$1,000..	216,954	13,780	20,569	41,214	68,909	43,663	19,118	9,699	(D)	...	...
	Production workers:											
	Number.....	46,659	4,709	5,722	9,414	13,768	7,785	3,846	1,412	(D)	...	...
	Man-hours.....1,000..	96,707	8,976	11,591	19,239	28,537	17,242	8,061	3,059	(D)	...	...
	Wages.....\$1,000..	146,075	10,602	15,706	28,064	44,373	27,837	13,481	6,009	(D)	...	...
	Value added by mfg....do....	396,344	26,714	38,574	77,355	125,971	76,965	35,424	15,338	(D)	...	...
	Cost of materials.....do....	339,929	25,781	33,994	66,590	108,829	62,459	31,354	10,920	(D)	...	...
	Value of shipments.....do....	736,273	52,496	72,567	143,944	234,803	139,425	66,778	26,258	(D)	...	...
	Capital expenditures..do....	40,548	4,614	5,523	8,323	10,886	6,585	3,129	1,485	(D)	...	...
	Horsepower.....1,000 hp..	297	5	16	54	109	58	32	23	(D)	...	...
	Electricity used..mil. kwh..	232	9	21	45	75	49	25	8	(D)	...	...
3272	Gypsum products:											
	Number of establishments....	90	22	10	2	9	6	24	16	1	...	...
	Total employees.....	10,966	34	91	(D)	306	480	4,284	5,770	(D)	...	...
	Total payroll.....\$1,000..	48,639	119	330	(D)	1,360	1,870	19,338	25,612	(D)	...	...
	Production workers:											
	Number.....	9,278	26	68	(D)	230	387	3,633	4,932	(D)	...	...
	Man-hours.....1,000..	21,927	47	147	(D)	481	856	8,776	11,618	(D)	...	...
	Wages.....\$1,000..	39,715	83	212	(D)	862	1,440	15,783	21,334	(D)	...	...
	Value added by mfg....do....	161,898	313	639	(D)	2,933	5,640	67,663	84,708	(D)	...	...
	Cost of materials.....do....	120,278	291	716	(D)	2,984	7,771	49,609	58,905	(D)	...	...
	Value of shipments.....do....	282,177	604	1,356	(D)	5,918	13,412	117,272	143,614	(D)	...	...
	Capital expenditures..do....	10,227	(1)	(1)	(D)	(1)	3,152	2,505	4,092	(D)	...	...
	Horsepower.....1,000 hp..	214	(2)	(2)	(D)	3	6	82	123	(D)	...	...
	Electricity used..mil. kwh..	394	(3)	1	(D)	6	8	161	218	(D)	...	...
3274	Lime:											
	Number of establishments....	145	35	16	13	33	23	18	6	1	...	...
	Total employees.....	7,989	80	110	192	1,116	1,587	2,365	2,536	(D)	...	...
	Total payroll.....\$1,000..	30,645	167	274	554	3,693	6,205	9,216	10,532	(D)	...	...
	Production workers:											
	Number.....	6,835	64	93	166	956	1,387	2,012	2,153	(D)	...	...
	Man-hours.....1,000..	14,456	107	191	334	2,044	3,059	4,171	4,548	(D)	...	...
	Wages.....\$1,000..	24,454	142	226	481	2,961	5,202	7,164	8,275	(D)	...	...
	Value added by mfg....do....	57,383	451	490	681	6,966	12,601	17,576	18,616	(D)	...	...
	Cost of materials.....do....	51,842	387	422	1,116	8,661	12,964	10,400	17,890	(D)	...	...
	Value of shipments.....do....	109,226	838	913	1,797	15,628	25,566	27,976	36,506	(D)	...	...
	Capital expenditures..do....	4,835	(1)	(1)	(1)	924	912	1,201	1,359	(D)	...	...
	Horsepower.....1,000 hp..	182	(2)	2	4	34	38	51	53	(D)	...	...
	Electricity used..mil. kwh..	281	1	1	3	27	65	72	112	(D)	...	...
3275	Mineral wool:											
	Number of establishments....	85	5	14	10	17	19	12	6	1	...	1
	Total employees.....	10,244	13	98	147	643	1,415	1,995	5,903	(D)	...	(D)
	Total payroll.....\$1,000..	44,049	27	262	539	2,265	5,858	8,709	26,387	(D)	...	(D)
	Production workers:											
	Number.....	7,555	11	77	120	509	1,165	1,611	4,060	(D)	...	(D)
	Man-hours.....1,000..	15,931	21	131	252	1,044	2,563	3,490	8,427	(D)	...	(D)
	Wages.....\$1,000..	31,191	23	194	357	1,463	4,233	6,502	18,416	(D)	...	(D)
	Value added by mfg....do....	89,887	55	435	1,561	3,230	11,807	18,231	54,565	(D)	...	(D)
	Cost of materials.....do....	67,019	53	431	920	3,108	8,896	12,613	40,996	(D)	...	(D)
	Value of shipments.....do....	156,907	108	867	2,482	6,338	20,704	30,845	95,562	(D)	...	(D)
	Capital expenditures..do....	6,068	(1)	(1)	(1)	(1)	(1)	1,338	3,915	(D)	...	(D)
	Horsepower.....1,000 hp..	79	...	1	1	6	11	17	23	(D)	...	(D)
	Electricity used..mil. kwh..	233	(3)	(3)	1	8	22	43	159	(D)	...	(D)
3281	Cut-stone and stone products:											
	Number of establishments....	977	337	221	180	149	56	24	7	2	1	...
	Total employees.....	21,576	887	1,570	2,521	4,607	3,787	3,472	2,241	2,488	(D)	...
	Total payroll.....\$1,000..	78,240	2,391	5,246	8,871	17,346	14,473	11,612	9,126	9,173	(D)	...
	Production workers:											
	Number.....	18,410	744	1,304	2,091	3,833	3,256	3,073	1,902	2,203	(D)	...
	Man-hours.....1,000..	36,721	1,387	2,491	3,968	7,411	6,569	6,212	4,260	4,420	(D)	...
	Wages.....\$1,000..	60,650	1,919	3,995	6,859	13,092	11,111	9,576	6,527	7,569	(D)	...
	Value added by mfg....do....	119,765	5,514	9,304	15,047	26,485	20,881	18,551	12,897	11,083	(D)	...
	Cost of materials.....do....	62,018	4,740	6,571	10,198	14,491	7,633	7,009	6,518	4,854	(D)	...
	Value of shipments.....do....	181,784	10,255	15,876	25,246	40,977	28,515	25,561	19,415	15,937	(D)	...
	Capital expenditures..do....	4,296	(1)	529	(1)	831	544	779	(1)	564	(D)	...
	Horsepower.....1,000 hp..	211	20	11	24	52	42	33	13	16	(D)	...
	Electricity used..mil. kwh..	237	31	23	26	32	30	28	54	13	(D)	...

See footnotes at end of table.

SIZE OF ESTABLISHMENTS

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Table 1.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR MAJOR INDUSTRY GROUPS AND INDUSTRIES: 1954—Con.

Code	Industry group, industry, and item	Total, all estab- lish- ments	Establishments with an average of—									
			1-4 em- ployees	5-9 em- ployees	10-19 em- ployees	20-49 em- ployees	50-99 em- ployees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
3291	<u>Abrasive products:</u>											
	Number of establishments....	312	95	42	43	67	30	18	11	3	1	2
	Total employees.....	22,345	238	312	606	2,150	2,131	2,499	3,637	10,769	(D)	(D)
	Total payroll.....\$1,000..	101,218	741	1,190	2,563	8,364	9,207	11,009	16,588	51,554	(D)	(D)
	Production workers:											
	Number.....	15,756	172	235	424	1,635	1,627	1,746	2,745	7,168	(D)	(D)
	Man-hours.....1,000..	30,417	328	434	840	3,126	3,133	3,487	5,320	13,746	(D)	(D)
	Wages.....\$1,000..	62,040	521	722	1,369	5,130	5,604	6,236	10,707	31,748	(D)	(D)
	Value added by mfg....do....	191,850	1,819	2,087	4,492	17,267	17,561	17,290	32,630	98,700	(D)	(D)
	Cost of materials.....do....	140,662	2,104	2,567	4,713	17,657	15,257	18,632	14,836	64,892	(D)	(D)
	Value of shipments.....do....	332,512	3,924	4,655	9,206	34,925	32,818	35,922	47,466	163,593	(D)	(D)
	Capital expenditures..do....	9,857	(¹)	(¹)	(¹)	1,034	2,015	(¹)	1,318	4,386	(D)	(D)
	Horsepower.....1,000 hp..	115	1	1	2	13	9	18	15	56	(D)	(D)
	Electricity used..mil. kwh..	409	3	2	4	17	10	164	22	187	(D)	(D)
3292	<u>Asbestos products:</u>											
	Number of establishments....	110	11	6	9	14	10	29	24	3	4	...
	Total employees.....	21,977	34	41	136	456	734	4,234	8,221	8,119	(D)	...
	Total payroll.....\$1,000..	92,413	128	135	522	1,596	2,843	16,537	36,126	34,524	(D)	...
	Production workers:											
	Number.....	17,760	26	32	99	378	565	3,504	6,695	6,458	(D)	...
	Man-hours.....1,000..	35,985	55	53	202	758	1,079	7,210	13,614	13,012	(D)	...
	Wages.....\$1,000..	70,319	87	89	333	1,161	1,922	12,789	27,109	26,827	(D)	...
	Value added by mfg....do....	179,864	311	166	929	2,716	4,396	33,239	72,478	65,625	(D)	...
	Cost of materials.....do....	166,340	314	209	883	2,346	5,118	33,374	72,511	51,582	(D)	...
	Value of shipments.....do....	346,206	626	376	1,813	5,063	9,515	66,614	144,990	117,207	(D)	...
	Capital expenditures..do....	14,935	(¹)	(¹)	(¹)	(¹)	(¹)	5,175	4,309	5,079	(D)	...
	Horsepower.....1,000 hp..	211	11	(²)	(²)	2	6	32	72	88	(D)	...
	Electricity used..mil. kwh..	320	33	(³)	1	3	8	51	114	110	(D)	...
3293	<u>Gaskets and asbestos insulations:</u>											
	Number of establishments....	237	69	41	40	46	18	12	7	2	2	...
	Total employees.....	12,807	201	292	556	1,548	1,306	2,110	2,581	4,212	(D)	...
	Total payroll.....\$1,000..	55,115	581	1,148	2,203	6,370	5,703	9,140	10,727	19,242	(D)	...
	Production workers:											
	Number.....	10,128	160	223	427	1,226	996	1,618	2,085	3,391	(D)	...
	Man-hours.....1,000..	20,340	292	431	800	2,522	2,011	3,309	4,289	6,685	(D)	...
	Wages.....\$1,000..	37,241	437	715	1,307	3,929	3,426	6,103	7,814	13,509	(D)	...
	Value added by mfg....do....	84,485	1,235	1,965	3,541	11,232	9,745	15,512	20,233	21,018	(D)	...
	Cost of materials.....do....	68,917	899	2,077	3,334	9,709	6,648	10,845	13,411	21,992	(D)	...
	Value of shipments.....do....	153,402	2,135	4,042	6,876	20,942	16,394	26,357	33,644	43,010	(D)	...
	Capital expenditures..do....	4,954	(¹)	(¹)	(¹)	(¹)	(¹)	926	1,028	1,608	(D)	...
	Horsepower.....1,000 hp..	45	6	1	1	3	3	11	15	5	(D)	...
	Electricity used..mil. kwh..	95	12	2	4	9	5	22	34	7	(D)	...
3295	<u>Minerals: ground or treated:</u>											
	Number of establishments....	353	87	71	87	77	20	9	2	...	...	...
	Total employees.....	7,699	223	513	1,286	2,295	1,266	2,113	(D)	...	...	...
	Total payroll.....\$1,000..	32,404	609	1,859	5,115	9,830	5,568	9,422	(D)	...	...	...
	Production workers:											
	Number.....	6,401	185	413	1,028	1,975	1,060	1,739	(D)	...	...	...
	Man-hours.....1,000..	13,784	371	873	2,165	4,330	2,233	3,811	(D)	...	...	...
	Wages.....\$1,000..	24,312	494	1,344	3,520	7,579	4,138	7,236	(D)	...	...	...
	Value added by mfg....do....	89,725	1,429	3,921	12,659	28,732	12,000	30,981	(D)	...	...	...
	Cost of materials.....do....	59,632	1,331	3,430	8,978	18,934	7,432	19,525	(D)	...	...	...
	Value of shipments.....do....	149,357	2,761	7,352	21,637	47,666	19,433	50,507	(D)	...	...	...
	Capital expenditures..do....	10,226	(¹)	932	736	2,458	1,105	4,754	(D)	...	...	...
	Horsepower.....1,000 hp..	186	7	9	30	69	34	37	(D)	...	...	...
	Electricity used..mil. kwh..	172	11	9	18	42	30	62	(D)	...	...	...
3297	<u>Nonclay refractories:</u>											
	Number of establishments....	77	5	5	8	8	21	20	9	1	...	...
	Total employees.....	8,559	10	36	121	295	1,516	2,935	3,644	(D)	...	...
	Total payroll.....\$1,000..	34,260	30	106	489	1,141	6,261	11,962	14,269	(D)	...	...
	Production workers:											
	Number.....	7,150	7	29	98	255	1,253	2,393	3,113	(D)	...	...
	Man-hours.....1,000..	12,890	16	41	182	492	2,329	4,350	5,476	(D)	...	...
	Wages.....\$1,000..	26,124	25	83	313	929	4,689	8,750	11,332	(D)	...	...
	Value added by mfg....do....	78,071	53	351	844	2,737	13,699	23,508	36,879	(D)	...	...
	Cost of materials.....do....	53,026	27	380	473	2,084	9,071	15,937	25,051	(D)	...	...
	Value of shipments.....do....	131,097	80	732	1,318	4,821	22,739	39,445	61,959	(D)	...	...
	Capital expenditures..do....	3,739	(¹)	(¹)	(¹)	(¹)	527	914	1,941	(D)	...	...
	Horsepower.....1,000 hp..	99	5	1	1	4	16	44	28	(D)	...	...
	Electricity used..mil. kwh..	149	4	(³)	1	5	30	56	52	(D)	...	...

See footnotes at end of table.

MANUFACTURES—SUMMARY STATISTICS

Table 1.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR MAJOR INDUSTRY GROUPS AND INDUSTRIES: 1954—Con.

Code	Industry group, industry, and item	Total, all estab- lish- ments	Establishments with an average of—									
			1-4 em- ployees	5-9 em- ployees	10-19 em- ployees	20-49 em- ployees	50-99 em- ployees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
3298	Statuary and art goods:											
	Number of establishments....	220	148	32	15	20	4	1	...	...	...	...
	Total employees.....	1,726	318	219	224	605	360	(D)	...	...	...	...
	Total payroll.....\$1,000..	5,315	646	631	750	1,769	1,510	(D)	...	...	...	...
	Production workers:											
	Number.....	1,450	267	195	195	531	261	(D)	...	...	...	...
	Man-hours.....1,000..	2,822	496	376	386	1,022	541	(D)	...	...	...	...
	Wages.....\$1,000..	3,932	521	547	593	1,362	907	(D)	...	...	...	...
	Value added by mfg....do....	8,332	1,433	984	1,031	2,738	2,145	(D)	...	...	...	...
	Cost of materials.....do....	3,441	755	450	400	916	919	(D)	...	...	...	...
	Value of shipments.....do....	11,774	2,188	1,435	1,431	3,654	3,065	(D)	...	...	...	...
	Capital expenditures..do....	(1)	(1)	(1)	(1)	(1)	(1)	(D)	...	...	...	...
	Horsepower.....1,000 hp..	1	(2)	(2)	(2)	1	(2)	(D)	...	...	...	...
	Electricity used..mil. kwh..	3	1	(3)	1	1	(3)	(D)	...	...	...	...
3299	Nonmetallic mineral prod- ucts, nec:											
	Number of establishments....	121	32	22	29	18	10	6	3	1	...	...
	Total employees.....	4,483	88	152	415	525	754	1,002	1,545	(D)	...	...
	Total payroll.....\$1,000..	15,835	267	605	1,653	1,717	2,582	3,620	5,390	(D)	...	...
	Production workers:											
	Number.....	3,605	68	103	289	413	633	864	1,232	(D)	...	...
	Man-hours.....1,000..	7,126	129	200	548	774	1,252	1,647	2,574	(D)	...	...
	Wages.....\$1,000..	10,943	195	303	881	1,091	1,805	2,860	3,804	(D)	...	...
	Value added by mfg....do....	30,340	784	1,392	3,466	3,840	3,590	9,607	7,659	(D)	...	...
	Cost of materials.....do....	24,974	743	1,569	4,305	2,826	2,698	6,486	6,344	(D)	...	...
	Value of shipments.....do....	55,314	1,528	2,962	7,771	6,666	6,289	16,094	14,004	(D)	...	...
	Capital expenditures..do....	1,574	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(D)	...	...
	Horsepower.....1,000 hp..	12	(2)	(2)	1	2	2	5	2	(D)	...	...
	Electricity used..mil. kwh..	30	1	1	5	2	6	7	8	(D)	...	...
33	Primary metal industries:											
	Number of establishments....	5,838	1,130	734	785	1,083	669	651	354	213	14	...
	Total employees.....	1,117,059	2,913	5,303	11,428	35,287	46,969	105,126	126,848	149,513	232,124	...
	Total payroll.....\$1,000..	5,097,466	9,213	19,219	43,992	142,720	200,580	459,077	554,365	687,850	1,088,490	...
	Production workers:											
	Number.....	938,511	2,509	4,480	9,605	30,067	40,157	89,028	103,382	125,301	192,365	...
	Man-hours.....1,000..	1,812,027	4,831	8,736	18,548	58,953	79,420	175,555	203,998	243,080	373,236	...
	Wages.....\$1,000..	3,985,548	6,804	14,671	32,701	106,813	151,658	349,501	430,152	526,943	843,094	...
	Value added by mfg....do....	9,372,910	19,782	34,091	71,582	231,964	330,871	843,035	1,065,810	1,324,250	2,016,810	...
	Cost of materials.....do....	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	...
	Value of shipments.....do....	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	...
	Capital expenditures..do....	831,095	1,887	4,284	4,221	27,101	32,787	53,851	64,260	105,389	270,496	...
	Horsepower.....1,000 hp..	24,482	166	224	46	217	392	1,355	1,944	2,947	6,523	...
	Electricity used..mil. kwh..	65,932	251	397	74	245	664	2,203	6,460	10,724	29,255	...
3311	Blast furnaces and steel mills:											
	Number of establishments....	85	...	...	...	4	4	32	23	11	11	...
	Total employees.....	36,454	...	...	...	455	(D)	5,484	8,039	7,742	14,731	...
	Total payroll.....\$1,000..	164,447	...	...	...	2,435	(D)	24,456	36,362	35,645	65,747	...
	Production workers:											
	Number.....	31,108	...	...	...	392	(D)	4,847	...	6,556	12,256	...
	Man-hours.....1,000..	59,245	...	...	...	836	(D)	9,494	13,495	12,633	22,785	...
	Wages.....\$1,000..	130,475	...	...	...	1,772	(D)	20,268	30,130	28,245	50,057	...
	Value added by mfg....do....	620,250	...	...	...	3,692	(D)	111,839	168,716	121,883	214,119	...
	Cost of materials.....do....	2,121,571	...	...	...	21,157	(D)	302,709	490,186	435,930	871,587	...
	Value of shipments.....do....	2,741,821	...	...	...	24,849	(D)	414,548	658,903	557,813	1,085,707	...
	Capital expenditures..do....	84,701	...	...	...	13,544	(D)	9,231	8,888	28,896	24,140	...
	Horsepower.....1,000 hp..	(6)	...	...	...	...	(D)	(6)	...	(6)	(6)	...
	Electricity used..mil. kwh..	(6)	...	...	...	...	(D)	(6)	...	(6)	(6)	...
3312	Steel works and rolling mills:											
	Number of establishments....	204	...	1	...	2	6	24	24	37	51	59
	Total employees.....	482,236	...	530	...	(D)	(D)	4,434	8,587	27,427	86,200	355,056
	Total payroll.....\$1,000..	2,254,188	...	2,271	...	(D)	(D)	19,431	40,254	121,392	403,714	1,667,124
	Production workers:											
	Number.....	409,858	...	467	...	(D)	(D)	3,783	7,443	23,290	73,171	301,702
	Man-hours.....1,000..	766,825	...	887	...	(D)	(D)	7,267	14,541	42,463	137,996	563,669
	Wages.....\$1,000..	1,802,259	...	1,845	...	(D)	(D)	14,936	31,981	95,586	319,353	1,338,555
	Value added by mfg....do....	4,020,264	...	3,925	...	(D)	(D)	35,278	80,200	200,480	659,836	3,040,544
	Cost of materials.....do....	(4)	...	(4)	...	(D)	(D)	(4)	(4)	(4)	(4)	(4)
	Value of shipments.....do....	(4)	...	(4)	...	(D)	(D)	(4)	(4)	(4)	(4)	(4)
	Capital expenditures..do....	416,528	...	(1)	...	(D)	(D)	6,762	3,735	17,136	152,518	236,183
	Horsepower.....1,000 hp..	(6)	...	(6)	...	(D)	(D)	(6)	(6)	(6)	(6)	(6)
	Electricity used..mil. kwh..	(6)	...	(6)	...	(D)	(D)	(6)	(6)	(6)	(6)	(6)

See footnotes at end of table.

SIZE OF ESTABLISHMENTS

203-63

Table 1.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR MAJOR INDUSTRY GROUPS AND INDUSTRIES: 1954—Con.

Code	Industry group, industry, and item	Total, all estab- lish- ments	Establishments with an average of—									
			1-4 em- ployees	5-9 em- ployees	10-19 em- ployees	20-49 em- ployees	50-99 em- ployees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
3313	Electrometallurgical products:											
	Number of establishments....	21	1	...	1	3	5	10	5	3	3	...
	Total employees.....	11,361	125	...	(D)	(D)	396	1,789	1,773	7,275	(D)	...
	Total payroll.....\$1,000..	51,332	429	...	(D)	(D)	1,797	7,854	7,421	33,828	(D)	...
	Production workers:											
	Number.....	8,834	23	...	(D)	(D)	297	1,431	1,486	5,524	(D)	...
	Man-hours.....1,000..	17,614	34	...	(D)	(D)	604	3,024	2,940	10,909	(D)	...
	Wages.....\$1,000..	36,895	273	...	(D)	(D)	1,204	5,863	5,744	23,803	(D)	...
	Value added by mfg....do....	114,712	966	...	(D)	(D)	3,313	11,681	17,576	81,121	(D)	...
	Cost of materials.....do....	157,049	1,358	...	(D)	(D)	8,974	35,126	25,493	85,645	(D)	...
	Value of shipments.....do....	271,767	1,775	...	(D)	(D)	12,287	46,807	43,069	166,826	(D)	...
	Capital expenditures..do....	22,313	1	...	(D)	(D)	(1)	1,301	4,649	15,960	(D)	...
	Horsepower.....1,000 hp..	374	4	...	(D)	(D)	5	29	13	844	(D)	...
	Electricity used..mil. kwh..	5,928	2	...	(D)	(D)	133	794	1,412	3,502	(D)	...
3321	Gray-iron foundries:											
	Number of establishments....	1,411	159	130	185	371	274	190	72	20	10	3
	Total employees.....	133,914	1,799	930	2,749	12,413	18,703	29,410	24,198	13,767	31,336	(D)
	Total payroll.....\$1,000..	557,535	2,656	8,705	44,304	73,623	117,260	102,540	53,840	152,806	(D)	
	Production workers:											
	Number.....	112,283	356	254	2,453	11,041	16,534	26,233	21,098	12,220	27,498	(D)
	Man-hours.....1,000..	230,234	640	1,569	4,502	20,859	31,607	50,664	40,993	23,302	56,095	(D)
	Wages.....\$1,000..	459,049	2,405	7,333	36,062	59,622	95,891	83,254	45,331	128,267	(D)	
	Value added by mfg....do....	846,271	3,391	12,153	62,787	109,496	173,164	162,707	89,648	229,243	(D)	
	Cost of materials.....do....	572,676	2,321	6,301	31,176	54,337	105,303	135,225	69,404	166,732	(D)	
	Value of shipments.....do....	1,100,000	6,224	18,454	93,963	163,834	278,468	297,932	159,052	396,025	(D)	
	Capital expenditures..do....	49,939	1	622	2,122	4,349	5,640	9,843	4,953	22,032	(D)	
	Horsepower.....1,000 hp..	600	13	8	52	118	161	143	87	293	(D)	
	Electricity used..mil. kwh..	1,100	34	8	58	95	197	197	130	262	(D)	
3322	Malleable-iron foundries:											
	Number of establishments....	31	...	1	3	5	13	31	19	6	1	2
	Total employees.....	23,378	...	55	(D)	115	951	5,448	6,692	10,113	(D)	
	Total payroll.....\$1,000..	90,888	...	170	(D)	421	3,675	21,975	27,635	42,550	(D)	
	Production workers:											
	Number.....	20,111	...	51	(D)	102	821	4,657	5,797	8,776	(D)	
	Man-hours.....1,000..	38,306	...	92	(D)	196	1,561	8,747	10,995	16,773	(D)	
	Wages.....\$1,000..	78,000	...	226	(D)	423	2,830	17,194	22,315	36,700	(D)	
	Value added by mfg....do....	135,175	...	326	(D)	617	4,591	29,500	35,091	65,268	(D)	
	Cost of materials.....do....	70,000	...	121	(D)	197	1,910	12,994	17,673	28,272	(D)	
	Value of shipments.....do....	212,354	...	327	(D)	814	6,502	42,495	52,770	103,444	(D)	
	Capital expenditures..do....	9,966	...	1	(D)	...	800	1,337	7,543	...	(D)	
	Horsepower.....1,000 hp..	200	...	2	(D)	...	34	17	60	...	(D)	
	Electricity used..mil. kwh..	273	...	7	(D)	1	5	45	66	150	(D)	
3333	Steel foundries:											
	Number of establishments....	101	14	9	13	30	33	67	45	22	6	...
	Total employees.....	30,800	67	202	1,045	2,465	11,509	15,532	15,319	8,327	...	...
	Total payroll.....\$1,000..	121,300	161	720	4,113	10,716	48,238	67,737	67,605	41,737	...	...
	Production workers:											
	Number.....	27,111	51	140	920	2,111	10,440	13,000	12,711	7,152	...	...
	Man-hours.....1,000..	85,684	59	312	1,733	4,330	18,539	24,585	22,706	13,558	...	...
	Wages.....\$1,000..	178,000	193	535	3,173	7,985	36,022	50,990	49,475	30,906	...	...
	Value added by mfg....do....	357,824	1,278	627	1,282	5,739	14,172	75,005	95,597	110,774	63,747	...
	Cost of materials.....do....	176,493	1,105	259	1,111	2,604	8,045	33,638	47,711	50,856	32,543	...
	Value of shipments.....do....	534,718	1,390	2,390	2,344	22,917	108,644	103,317	151,630	111,121	...	...
	Capital expenditures..do....	16,426	1	1	2,421	583	2,678	4,373	3,909	2,174	...	...
	Horsepower.....1,000 hp..	621	75	2	...	22	8	144	216	...	...	...
	Electricity used..mil. kwh..	1,224	13	3	12	65	238	468	305	76	...	...
3391	Primary copper:											
	Number of establishments....	27	...	...	...	...	2	3	9	...	4	...
	Total employees.....	10,318	...	...	...	...	10	...	3,095	...	(D)	...
	Total payroll.....\$1,000..	99,733	...	...	...	...	5,277	...	13,401	...	(D)	...
	Production workers:											
	Number.....	11,705	...	...	...	...	1,026	...	2,686	...	(D)	...
	Man-hours.....1,000..	23,500	...	...	...	...	...	...	5,482	...	(D)	...
	Wages.....\$1,000..	48,442	...	...	...	...	...	...	11,298	...	(D)	...
	Value added by mfg....do....	156,981	...	...	...	...	...	...	52,581	...	(D)	...
	Cost of materials.....do....	...	...	...	...	...	...	...	...	...	(D)	...
	Value of shipments.....do....	...	...	...	...	...	...	...	...	...	(D)	...
	Capital expenditures..do....	...	...	...	...	...	(D)	...	670	...	(D)	...
	Horsepower.....1,000 hp..	387	...	...	...	...	...	...	154	...	(D)	...
	Electricity used..mil. kwh..	746	...	...	...	...	...	...	...	...	(D)	...

See footnotes at end of table.

Table 1.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR MAJOR INDUSTRY GROUPS AND INDUSTRIES: 1954—Con.

Code	Industry group, industry, and item	Total, all estab- lish- ments	Establishments with an average of—									
			1-4 em- ployees	5-9 em- ployees	10-19 em- ployees	20-49 em- ployees	50-99 em- ployees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
3332	Primary lead:											
	Number of establishments....	13	...	...	...	...	...	6	5	2	...	...
	Total employees.....	4,063	...	...	...	...	...	4,063	(D)	(D)	...	...
	Total payroll.....\$1,000..	17,393	...	...	...	...	...	17,393	(D)	(D)	...	...
	Production workers:											
	Number.....	3,312	...	...	...	...	...	3,312	(D)	(D)	...	...
	Man-hours.....1,000..	6,659	...	...	...	...	...	6,659	(D)	(D)	...	...
	Wages.....\$1,000..	13,142	...	...	...	...	...	13,142	(D)	(D)	...	...
	Value added by mfg....do....	30,772	...	...	...	...	...	30,772	(D)	(D)	...	...
	Cost of materials.....do....	(4)	...	...	...	...	...	(4)	(D)	(D)	...	...
	Value of shipments.....do....	(4)	...	...	...	...	...	(4)	(D)	(D)	...	...
	Capital expenditures....do....	1,404	...	...	...	...	...	1,404	(D)	(D)	...	...
	Horsepower.....1,000 hp..	84	...	...	...	...	...	84	(D)	(D)	...	...
	Electricity used..mil. kwh..	136	...	...	...	...	...	136	(D)	(D)	...	...
3333	Primary zinc:											
	Number of establishments....	21	...	...	...	1	2	1	8	8	1	...
	Total employees.....	10,470	...	...	...	3,384	(D)	(D)	(D)	7,085	(D)	...
	Total payroll.....\$1,000..	44,042	...	...	...	14,455	(D)	(D)	(D)	29,586	(D)	...
	Production workers:											
	Number.....	8,638	...	...	...	2,910	(D)	(D)	(D)	5,727	(D)	...
	Man-hours.....1,000..	16,546	...	...	...	6,100	(D)	(D)	(D)	10,445	(D)	...
	Wages.....\$1,000..	34,104	...	...	...	12,394	(D)	(D)	(D)	21,709	(D)	...
	Value added by mfg....do....	87,501	...	...	...	28,685	(D)	(D)	(D)	58,816	(D)	...
	Cost of materials.....do....	143,013	...	...	...	53,889	(D)	(D)	(D)	89,122	(D)	...
	Value of shipments.....do....	230,515	...	...	...	82,575	(D)	(D)	(D)	147,938	(D)	...
	Capital expenditures....do....	5,276	...	...	...	3,078	(D)	(D)	(D)	2,196	(D)	...
	Horsepower.....1,000 hp..	323	...	...	...	84	(D)	(D)	(D)	239	(D)	...
	Electricity used..mil. kwh..	1,686	...	...	...	397	(D)	(D)	(D)	1,289	(D)	...
3334	Primary aluminum:											
	Number of establishments....	16	...	...	...	...	...	...	1	5	9	1
	Total employees.....	20,626	...	...	...	...	...	...	20,626	(D)	(D)	(D)
	Total payroll.....\$1,000..	96,813	...	...	...	...	...	...	56,313	(D)	(D)	(D)
	Production workers:											
	Number.....	16,982	...	...	...	...	...	...	16,982	(D)	(D)	(D)
	Man-hours.....1,000..	35,335	...	...	...	...	...	...	35,335	(D)	(D)	(D)
	Wages.....\$1,000..	77,174	...	...	...	...	...	...	77,174	(D)	(D)	(D)
	Value added by mfg....do....	264,201	...	...	...	...	...	...	264,201	(D)	(D)	(D)
	Cost of materials.....do....	339,875	...	...	...	...	...	...	339,875	(D)	(D)	(D)
	Value of shipments.....do....	604,076	...	...	...	...	...	...	604,076	(D)	(D)	(D)
	Capital expenditures....do....	26,073	...	...	...	...	...	...	26,073	(D)	(D)	(D)
	Horsepower.....1,000 hp..	2,041	...	...	...	...	...	...	2,041	(D)	(D)	(D)
	Electricity used..mil. kwh..	26,283	...	...	...	...	...	...	26,283	(D)	(D)	(D)
3339	Primary nonferrous metals, nec:											
	Number of establishments....	27	5	5	5	...	4	3	...	4	1	...
	Total employees.....	5,519	11	37	70	...	275	452	...	4,672	(D)	...
	Total payroll.....\$1,000..	26,601	28	183	310	...	1,259	2,232	...	22,587	(D)	...
	Production workers:											
	Number.....	4,246	10	22	49	...	211	320	...	3,632	(D)	...
	Man-hours.....1,000..	8,249	15	44	90	...	433	666	...	6,999	(D)	...
	Wages.....\$1,000..	18,892	30	76	176	...	861	1,444	...	16,303	(D)	...
	Value added by mfg....do....	74,703	90	348	625	...	1,888	6,269	...	65,481	(D)	...
	Cost of materials.....do....	158,945	435	1,406	2,553	...	3,635	2,570	...	148,344	(D)	...
	Value of shipments.....do....	233,648	525	1,754	3,179	...	5,524	8,839	...	213,825	(D)	...
	Capital expenditures....do....	21,119	(1)	(1)	(1)	...	15,591	(1)	...	5,142	(D)	...
	Horsepower.....1,000 hp..	52	1	1	(2)	...	1	2	...	47	(D)	...
	Electricity used..mil. kwh..	1,581	7	2	2	...	2	6	...	1,562	(D)	...
3341	Secondary nonferrous metals:											
	Number of establishments....	360	88	63	65	66	38	29	9	1	1	...
	Total employees.....	15,775	237	468	927	2,201	2,719	4,371	4,849	(D)	(D)	...
	Total payroll.....\$1,000..	71,707	812	1,903	4,329	10,186	12,975	20,078	21,422	(D)	(D)	...
	Production workers:											
	Number.....	12,204	189	354	697	1,723	2,078	3,345	3,815	(D)	(D)	...
	Man-hours.....1,000..	25,121	395	727	1,420	3,605	4,423	6,686	7,861	(D)	(D)	...
	Wages.....\$1,000..	46,711	580	1,204	2,464	6,364	7,973	12,898	15,224	(D)	(D)	...
	Value added by mfg....do....	142,329	2,152	4,317	8,914	20,997	23,419	33,774	48,754	(D)	(D)	...
	Cost of materials.....do....	582,312	6,533	15,356	36,289	108,386	94,998	175,687	145,061	(D)	(D)	...
	Value of shipments.....do....	724,643	8,685	19,673	45,204	129,384	118,417	209,461	193,816	(D)	(D)	...
	Capital expenditures....do....	9,553	(1)	2,528	(1)	1,164	917	2,161	2,153	(D)	(D)	...
	Horsepower.....1,000 hp..	92	8	6	4	11	13	30	20	(D)	(D)	...
	Electricity used..mil. kwh..	185	19	4	7	17	25	65	48	(D)	(D)	...

See footnotes at end of table.

SIZE OF ESTABLISHMENTS

203-65

Table 1.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR MAJOR INDUSTRY GROUPS AND INDUSTRIES: 1954—Con.

Code	Industry group, industry, and item	Total, all estab- lish- ments	Establishments with an average of—									
			1-4 em- ployees	5-9 em- ployees	10-19 em- ployees	20-49 em- ployees	50-99 em- ployees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
3351	Copper rolling and drawing:											
	Number of establishments....	89	4	4	4	6	11	20	12	14	14	...
	Total employees.....	41,906	11	30	64	199	824	3,125	4,398	10,370	22,884	...
	Total payroll.....\$1,000..	195,225	37	139	272	858	3,769	14,522	20,092	49,062	106,474	...
	Production workers:											
	Number.....	34,072	9	20	49	160	693	2,582	3,695	8,310	18,552	...
	Man-hours.....1,000..	68,017	22	46	104	330	1,463	5,140	7,589	17,010	36,312	...
	Wages.....\$1,000..	147,874	30	75	180	668	2,705	10,813	15,946	36,429	81,027	...
	Value added by mfg....do....	420,604	60	251	460	2,508	11,790	32,619	44,452	114,827	213,633	...
	Cost of materials.....do....	900,003	139	697	817	5,319	62,847	111,375	132,274	165,677	420,855	...
	Value of shipments.....do....	1,320,608	199	949	1,278	7,828	74,638	143,994	176,726	280,505	634,489	...
	Capital expenditures.....do....	30,540	...	(1)	(1)	(1)	688	3,256	3,191	5,492	17,706	...
	Horsepower.....1,000 hp..	639	5	(2)	(2)	4	16	52	69	173	320	...
	Electricity used..mil. kwh..	1,028	2	(3)	(3)	4	25	71	129	221	576	...
3352	Aluminum rolling and drawing:											
	Number of establishments....	94	10	7	7	22	13	14	6	1	11	3
	Total employees.....	36,803	30	45	106	768	896	2,101	2,157	30,697	(D)	(D)
	Total payroll.....\$1,000..	164,938	112	189	473	3,275	3,581	9,412	9,097	138,796	(D)	(D)
	Production workers:											
	Number.....	29,795	25	37	84	635	772	1,715	1,710	24,813	(D)	(D)
	Man-hours.....1,000..	60,652	50	74	156	1,290	1,593	3,581	3,325	50,580	(D)	(D)
	Wages.....\$1,000..	125,617	75	115	291	2,224	2,784	7,034	6,605	106,486	(D)	(D)
	Value added by mfg....do....	339,717	291	372	1,478	6,239	6,160	18,996	12,140	294,040	(D)	(D)
	Cost of materials.....do....	534,691	559	842	2,072	13,760	10,930	63,917	16,781	425,825	(D)	(D)
	Value of shipments.....do....	874,408	850	1,214	3,551	19,999	17,091	82,913	28,921	719,865	(D)	(D)
	Capital expenditures.....do....	21,402	(1)	(1)	(1)	849	(1)	5,162	(1)	14,732	(D)	(D)
	Horsepower.....1,000 hp..	878	(2)	1	1	4	7	30	32	803	(D)	(D)
	Electricity used..mil. kwh..	1,385	3	1	1	14	17	42	46	1,261	(D)	(D)
3359	Rolling and drawing, nec:											
	Number of establishments....	98	7	16	13	28	10	17	2	4	1	...
	Total employees.....	10,381	14	121	185	972	695	2,696	5,695	(D)	(D)	...
	Total payroll.....\$1,000..	50,157	49	509	825	4,265	3,137	12,480	28,890	(D)	(D)	...
	Production workers:											
	Number.....	7,660	11	86	128	742	572	2,054	4,065	(D)	(D)	...
	Man-hours.....1,000..	15,926	24	179	278	1,523	1,256	4,182	8,481	(D)	(D)	...
	Wages.....\$1,000..	31,844	35	272	492	2,804	2,366	8,142	17,732	(D)	(D)	...
	Value added by mfg....do....	99,907	110	897	1,781	9,647	5,203	26,547	55,720	(D)	(D)	...
	Cost of materials.....do....	200,808	1,069	2,661	5,980	31,344	9,623	49,197	100,929	(D)	(D)	...
	Value of shipments.....do....	300,715	1,180	3,559	7,762	40,991	14,826	75,744	156,649	(D)	(D)	...
	Capital expenditures.....do....	11,246	...	(1)	(1)	(1)	(1)	1,696	8,881	(D)	(D)	...
	Horsepower.....1,000 hp..	172	3	(2)	1	9	6	29	124	(D)	(D)	...
	Electricity used..mil. kwh..	224	3	2	2	9	7	48	153	(D)	(D)	...
3361	Nonferrous foundries:											
	Number of establishments....	1,920	636	333	340	348	128	83	29	17	5	1
	Total employees.....	73,487	1,627	2,403	4,915	10,864	9,018	12,724	10,251	11,021	10,659	(D)
	Total payroll.....\$1,000..	327,906	4,484	8,432	18,992	45,070	38,823	57,691	48,165	53,506	52,740	(D)
	Production workers:											
	Number.....	61,573	1,445	2,120	4,249	9,417	7,791	10,814	8,440	8,703	8,591	(D)
	Man-hours.....1,000..	124,041	2,777	4,093	8,113	18,439	15,671	22,326	17,229	17,866	17,522	(D)
	Wages.....\$1,000..	251,374	3,792	6,906	14,818	34,308	29,549	43,863	37,394	40,502	40,238	(D)
	Value added by mfg....do....	476,969	9,360	14,304	28,609	68,463	59,608	89,266	64,354	75,361	67,641	(D)
	Cost of materials.....do....	396,821	7,915	12,174	24,984	66,529	53,429	68,632	51,574	56,657	54,924	(D)
	Value of shipments.....do....	873,790	17,275	26,479	53,593	134,993	113,038	157,898	115,928	132,018	122,565	(D)
	Capital expenditures.....do....	24,779	859	612	1,072	3,202	3,733	4,285	4,336	3,660	3,017	(D)
	Horsepower.....1,000 hp..	327	5	13	41	33	33	56	64	44	67	(D)
	Electricity used..mil. kwh..	586	14	9	35	50	51	102	112	89	124	(D)
3391	Iron and steel forgings:											
	Number of establishments....	259	33	25	19	59	41	43	22	10	6	1
	Total employees.....	39,771	88	189	266	1,896	2,854	7,045	7,532	7,100	12,798	(D)
	Total payroll.....\$1,000..	201,938	301	741	1,130	9,586	14,430	36,012	36,708	35,742	67,285	(D)
	Production workers:											
	Number.....	33,012	74	159	213	1,556	2,374	5,957	6,373	6,079	10,224	(D)
	Man-hours.....1,000..	65,120	149	313	417	3,096	4,593	11,753	12,374	11,730	20,692	(D)
	Wages.....\$1,000..	155,311	257	587	792	6,753	10,263	27,286	28,916	28,625	51,830	(D)
	Value added by mfg....do....	304,258	881	1,234	1,720	16,436	23,479	56,474	51,494	53,800	98,737	(D)
	Cost of materials.....do....	291,175	746	848	1,612	13,475	21,583	51,539	56,657	56,972	87,741	(D)
	Value of shipments.....do....	595,434	1,628	2,082	3,332	29,912	45,062	108,014	108,151	110,772	186,478	(D)
	Capital expenditures.....do....	15,862	(1)	(1)	(1)	527	903	2,201	2,605	3,627	5,807	(D)
	Horsepower.....1,000 hp..	419	11	1	3	22	37	62	83	74	126	(D)
	Electricity used..mil. kwh..	497	12	1	2	13	28	63	110	98	170	(D)

See footnotes at end of table.

Table 1.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR MAJOR INDUSTRY GROUPS AND INDUSTRIES: 1954—Con.

Code	Industry group, industry, and item	Total, all estab- lish- ments	Establishments with an average of—									
			1-4 em- ployees	5-9 em- ployees	10-19 em- ployees	20-49 em- ployees	50-99 em- ployees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
3392	Wire drawing:											
	Number of establishments....	198	21	16	16	18	29	30	32	27	8	1
	Total employees.....	54,873	50	124	230	566	2,114	5,199	11,583	19,140	15,864	(D)
	Total payroll.....\$1,000..	250,558	122	444	1,010	2,569	9,453	23,043	53,551	87,498	72,866	(D)
	Production workers:											
	Number.....	43,246	41	96	188	454	1,772	4,130	9,186	15,197	12,179	(D)
	Man-hours.....1,000..	87,182	74	191	402	991	3,644	8,238	18,817	30,429	24,393	(D)
	Wages.....\$1,000..	182,385	103	325	778	1,799	7,093	16,326	38,367	63,691	53,900	(D)
	Value added by mfg....do....	465,654	356	720	1,896	5,300	20,528	48,175	100,991	171,726	115,959	(D)
	Cost of materials.....do....	800,781	524	1,237	3,391	11,025	42,831	95,486	167,742	269,770	208,772	(D)
	Value of shipments.....do....	1,266,436	881	1,957	5,287	16,326	63,360	143,662	268,733	441,496	324,732	(D)
	Capital expenditures.....do....	35,729	(1)	(1)	(1)	904	1,212	4,858	8,460	10,327	9,689	(D)
	Horsepower.....1,000 hp..	488	19	1	3	4	19	52	118	169	103	(D)
	Electricity used..mil. kwh..	873	61	1	3	7	42	89	161	285	224	(D)
3393	Welded and heavy-riveted pipe:											
	Number of establishments....	88	6	10	3	14	9	16	17	9	4	...
	Total employees.....	22,085	127	(D)	(D)	461	664	2,298	5,623	12,910	(D)	...
	Total payroll.....\$1,000..	108,374	579	(D)	(D)	2,234	2,970	11,164	27,084	64,341	(D)	...
	Production workers:											
	Number.....	18,388	103	(D)	(D)	369	539	1,898	4,385	11,091	(D)	...
	Man-hours.....1,000..	37,473	213	(D)	(D)	788	1,152	4,006	8,594	22,713	(D)	...
	Wages.....\$1,000..	83,472	401	(D)	(D)	1,468	1,913	8,011	18,994	52,682	(D)	...
	Value added by mfg....do....	204,325	1,672	(D)	(D)	4,815	5,658	21,631	51,322	119,225	(D)	...
	Cost of materials.....do....	321,462	1,842	(D)	(D)	6,761	7,588	19,809	78,733	206,727	(D)	...
	Value of shipments.....do....	525,788	3,515	(D)	(D)	11,576	13,246	41,441	130,055	325,952	(D)	...
	Capital expenditures.....do....	9,134	(1)	(D)	(D)	516	(1)	1,191	2,337	4,196	(D)	...
	Horsepower.....1,000 hp..	306	26	(D)	(D)	8	8	22	63	179	(D)	...
	Electricity used..mil. kwh..	347	33	(D)	(D)	2	6	17	55	234	(D)	...
3399	Primary metal industries, nec:											
	Number of establishments....	574	146	114	111	105	47	30	14	6	1	...
	Total employees.....	25,060	393	801	1,616	3,405	3,299	4,926	4,913	5,704	(D)	...
	Total payroll.....\$1,000..	116,330	1,335	3,350	6,868	14,008	15,659	23,880	23,889	27,338	(D)	...
	Production workers:											
	Number.....	19,723	307	609	1,244	2,654	2,631	3,897	3,785	4,593	(D)	...
	Man-hours.....1,000..	40,195	607	1,250	2,592	5,436	5,524	7,684	7,935	9,164	(D)	...
	Wages.....\$1,000..	83,154	913	2,227	4,585	9,469	10,747	16,430	17,856	20,924	(D)	...
	Value added by mfg....do....	210,482	3,102	5,914	11,794	26,538	30,252	47,488	45,331	40,061	(D)	...
	Cost of materials.....do....	328,097	2,154	3,666	7,320	22,074	22,074	49,036	79,399	77,594	(D)	...
	Value of shipments.....do....	538,576	5,253	9,581	19,114	48,612	79,288	134,341	124,730	117,655	(D)	...
	Capital expenditures.....do....	14,864	599	532	1,006	1,642	2,711	2,109	4,261	2,001	(D)	...
	Horsepower.....1,000 hp..	318	2	3	9	34	50	81	72	67	(D)	...
	Electricity used..mil. kwh..	425	5	6	10	24	69	90	99	122	(D)	...
34	Fabricated metal products:											
	Number of establishments....	22,516	7,705	3,792	3,671	3,643	1,689	1,219	460	242	81	14
	Total employees.....	1,019,406	19,020	27,018	52,411	114,980	118,700	190,293	159,088	166,832	109,594	61,369
	Total payroll.....\$1,000..	4,397,337	56,367	98,753	204,814	472,801	511,154	820,790	682,134	755,760	506,541	288,149
	Production workers:											
	Number.....	821,172	15,505	22,230	42,403	93,455	95,684	151,902	128,474	133,803	87,702	49,924
	Man-hours.....1,000..	1,652,366	29,880	43,787	83,218	185,000	194,513	310,520	259,450	269,073	175,450	101,380
	Wages.....\$1,000..	3,174,186	42,496	74,023	145,100	325,972	352,185	575,014	501,266	553,280	380,901	223,852
	Value added by mfg....do....	7,596,275	126,541	178,564	350,092	802,292	850,064	1,384,553	1,248,293	1,331,167	851,855	472,755
	Cost of materials.....do....	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)
	Value of shipments.....do....	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)
	Capital expenditures.....do....	432,491	11,403	10,015	17,702	38,857	42,304	65,356	58,969	106,376	41,320	40,088
	Horsepower.....1,000 hp..	4,888	140	63	168	491	548	926	736	871	609	336
	Electricity used..mil. kwh..	5,886	198	126	241	448	504	941	1,013	1,118	800	497
3411	Tin cans and other tinware:											
	Number of establishments....	227	24	17	11	38	25	43	35	24	9	1
	Total employees.....	55,234	62	125	153	1,347	1,698	6,675	12,385	17,701	15,085	(D)
	Total payroll.....\$1,000..	245,134	146	408	427	5,106	6,666	28,112	54,880	78,951	70,435	(D)
	Production workers:											
	Number.....	48,008	54	113	124	1,202	1,501	5,668	10,615	15,467	13,261	(D)
	Man-hours.....1,000..	97,574	103	215	212	2,446	3,079	11,797	21,504	31,194	27,020	(D)
	Wages.....\$1,000..	202,112	116	344	278	4,165	5,351	22,010	44,351	65,864	59,629	(D)
	Value added by mfg....do....	482,297	359	1,573	994	11,020	14,423	62,911	120,869	160,237	109,907	(D)
	Cost of materials.....do....	884,469	340	1,472	1,456	32,441	37,034	129,537	204,978	291,471	185,737	(D)
	Value of shipments.....do....	1,366,766	700	3,046	2,451	43,461	51,457	192,448	325,847	451,708	295,646	(D)
	Capital expenditures.....do....	50,093	(1)	(1)	(1)	1,249	4,003	8,345	11,702	14,165	10,470	(D)
	Horsepower.....1,000 hp..	215	(2)	(2)	1	6	11	27	49	68	53	(D)
	Electricity used..mil. kwh..	394	(3)	(3)	(3)	6	6	45	96	146	95	(D)

See footnotes at end of table.

SIZE OF ESTABLISHMENTS

203-67

Table 1.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR MAJOR INDUSTRY GROUPS AND INDUSTRIES: 1954—Con.

Code	Industry group, industry, and item	Total, all estab- lish- ments	Establishments with an average of—									
			1-4 em- ployees	5-9 em- ployees	10-19 em- ployees	20-49 em- ployees	50-99 em- ployees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
3421	Cutlery:											
	Number of establishments....	182	55	19	29	24	23	16	9	5	2	...
	Total employees.....	15,102	143	140	398	787	1,737	2,660	2,716	6,519	(D)	...
	Total payroll.....\$1,000..	56,062	365	443	1,410	2,849	5,557	9,648	9,665	26,122	(D)	...
	Production workers:											
	Number.....	12,362	129	121	338	669	1,479	2,331	2,318	4,974	(D)	...
	Man-hours.....1,000..	24,578	240	235	667	1,307	2,846	4,712	4,754	9,814	(D)	...
	Wages.....\$1,000..	39,609	303	342	1,063	2,053	4,223	7,478	7,187	16,956	(D)	...
	Value added by mfg....do....	122,357	809	981	2,356	5,766	8,787	13,921	14,895	74,841	(D)	...
	Cost of materials.....do....	47,392	595	524	1,404	2,413	4,664	5,847	8,296	23,646	(D)	...
	Value of shipments.....do....	169,750	1,404	1,505	3,760	8,180	13,452	19,768	23,192	98,487	(D)	...
	Capital expenditures.....do....	2,393	(1)	(1)	(1)	(1)	(1)	(1)	(1)	1,146	(D)	...
	Horsepower.....1,000 hp..	59	2	(2)	2	3	9	12	10	21	(D)	...
	Electricity used..mil. kwh..	65	1	(3)	1	4	7	10	13	29	(D)	...
3422	Edge tools:											
	Number of establishments....	247	83	45	41	44	20	8	5	1	...	...
	Total employees.....	7,108	205	318	548	1,417	1,284	1,251	2,082	(D)	...	...
	Total payroll.....\$1,000..	29,174	602	1,367	2,045	5,543	5,689	5,634	8,292	(D)	...	...
	Production workers:											
	Number.....	5,917	179	314	466	1,175	1,101	984	1,694	(D)	...	...
	Man-hours.....1,000..	11,614	316	614	874	2,270	2,225	1,996	3,317	(D)	...	...
	Wages.....\$1,000..	21,428	477	991	1,557	3,991	4,269	3,799	6,341	(D)	...	...
	Value added by mfg....do....	48,027	1,269	2,428	3,210	8,981	8,843	8,956	14,338	(D)	...	...
	Cost of materials.....do....	21,694	769	1,180	1,080	3,197	2,618	4,977	7,869	(D)	...	...
	Value of shipments.....do....	69,721	2,039	3,608	4,291	12,179	11,462	13,933	22,207	(D)	...	...
	Capital expenditures.....do....	1,611	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(D)	...	...
	Horsepower.....1,000 hp..	32	7	1	3	5	6	4	6	(D)	...	...
	Electricity used..mil. kwh..	28	3	1	2	3	5	5	9	(D)	...	...
3423	Hand tools, nec:											
	Number of establishments....	503	201	70	56	72	43	43	12	5	1	...
	Total employees.....	23,385	480	499	814	2,414	2,964	7,208	4,253	4,749	(D)	...
	Total payroll.....\$1,000..	93,426	1,279	1,557	2,794	8,786	11,391	29,969	18,429	19,218	(D)	...
	Production workers:											
	Number.....	18,814	381	382	672	1,928	2,346	5,696	3,469	3,937	(D)	...
	Man-hours.....1,000..	36,655	685	700	1,228	3,669	4,616	11,145	6,944	7,666	(D)	...
	Wages.....\$1,000..	66,701	920	1,077	2,059	5,877	7,677	20,621	13,714	14,752	(D)	...
	Value added by mfg....do....	162,051	2,713	2,788	4,756	17,445	19,439	51,078	31,810	32,018	(D)	...
	Cost of materials.....do....	94,940	1,809	2,312	3,479	11,501	13,139	27,870	15,020	19,806	(D)	...
	Value of shipments.....do....	256,991	4,523	5,101	8,236	28,947	32,579	78,948	46,831	51,824	(D)	...
	Capital expenditures.....do....	7,047	(1)	(1)	(1)	737	562	2,485	1,121	1,547	(D)	...
	Horsepower.....1,000 hp..	120	2	1	2	11	16	45	15	28	(D)	...
	Electricity used..mil. kwh..	130	3	2	3	8	12	34	24	44	(D)	...
3424	Files:											
	Number of establishments....	30	12	6	5	...	2	1	2	1	1	...
	Total employees.....	2,904	34	46	67	...	2,755	(D)	(D)	(D)	(D)	...
	Total payroll.....\$1,000..	11,538	112	169	222	...	11,033	(D)	(D)	(D)	(D)	...
	Production workers:											
	Number.....	2,667	29	43	52	...	2,541	(D)	(D)	(D)	(D)	...
	Man-hours.....1,000..	4,784	52	85	94	...	4,549	(D)	(D)	(D)	(D)	...
	Wages.....\$1,000..	10,141	82	159	148	...	9,750	(D)	(D)	(D)	(D)	...
	Value added by mfg....do....	19,163	175	323	349	...	18,315	(D)	(D)	(D)	(D)	...
	Cost of materials.....do....	8,150	137	127	229	...	7,655	(D)	(D)	(D)	(D)	...
	Value of shipments.....do....	27,314	312	451	579	...	25,970	(D)	(D)	(D)	(D)	...
	Capital expenditures.....do....	725	(1)	(1)	(1)	...	706	(D)	(D)	(D)	(D)	...
	Horsepower.....1,000 hp..	18	(2)	(2)	(2)	...	18	(D)	(D)	(D)	(D)	...
	Electricity used..mil. kwh..	18	(3)	(3)	(3)	...	18	(D)	(D)	(D)	(D)	...
3425	Hand saws and saw blades:											
	Number of establishments....	99	21	23	13	20	6	11	2	1	2	...
	Total employees.....	6,879	50	166	181	618	495	1,455	3,911	(D)	(D)	...
	Total payroll.....\$1,000..	29,287	166	593	671	2,413	2,016	6,668	16,758	(D)	(D)	...
	Production workers:											
	Number.....	5,327	42	133	133	528	380	1,185	2,923	(D)	(D)	...
	Man-hours.....1,000..	10,320	79	250	258	935	721	2,489	5,585	(D)	(D)	...
	Wages.....\$1,000..	19,927	113	411	443	1,545	1,273	4,339	11,802	(D)	(D)	...
	Value added by mfg....do....	53,246	322	1,048	1,065	3,862	3,595	12,668	30,685	(D)	(D)	...
	Cost of materials.....do....	30,435	243	738	504	1,777	2,321	5,887	18,963	(D)	(D)	...
	Value of shipments.....do....	83,682	566	1,786	1,570	5,639	5,916	18,555	49,648	(D)	(D)	...
	Capital expenditures.....do....	1,582	(1)	(1)	(1)	(1)	(1)	(1)	954	(D)	(D)	...
	Horsepower.....1,000 hp..	37	(2)	(2)	(2)	3	2	5	27	(D)	(D)	...
	Electricity used..mil. kwh..	43	(3)	(3)	1	2	3	7	30	(D)	(D)	...

See footnotes at end of table.

Table 1.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR MAJOR INDUSTRY GROUPS AND INDUSTRIES: 1954—Con.

Code	Industry group, industry, and item	Total, all estab- lish- ments	Establishments with an average of—									
			1-4 em- ployees	5-9 em- ployees	10-19 em- ployees	20-49 em- ployees	50-99 em- ployees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
3429	Hardware, nec:											
	Number of establishments....	869	271	124	113	131	86	84	29	16	9	6
	Total employees.....	88,296	668	883	1,636	4,168	6,206	22,953	10,617	10,259	40,903	(D)
	Total payroll.....\$1,000..	380,464	1,855	2,827	6,218	15,988	24,746	54,113	42,900	41,473	190,342	(D)
	Production workers:											
	Number.....	72,708	576	740	1,336	3,392	5,038	10,628	8,436	8,396	34,163	(D)
	Man-hours.....1,000..	147,920	1,106	1,411	2,606	6,812	10,195	21,888	17,584	16,462	69,852	(D)
	Wages.....\$1,000..	286,371	1,409	2,200	4,414	11,059	16,611	38,208	31,458	30,565	150,444	(D)
	Value added by mfg....do....	639,578	4,288	5,313	11,180	27,821	45,033	91,468	79,786	63,999	310,687	(D)
	Cost of materials.....do....	471,950	4,318	4,804	9,106	22,488	32,828	66,967	51,837	47,943	231,654	(D)
	Value of shipments.....do....	1,111,529	8,607	10,118	20,287	50,310	77,861	158,436	131,624	111,943	542,341	(D)
	Capital expenditures.....do....	47,436	(1)	(1)	630	1,176	2,242	4,275	3,630	2,789	31,895	(D)
	Horsepower.....1,000 hp..	305	14	2	4	11	17	48	22	22	165	(D)
	Electricity used..mil. kwh..	454	17	3	6	12	18	47	38	33	280	(D)
3431	Plumbing fixtures and fittings:											
	Number of establishments....	321	104	46	42	51	20	29	15	6	8	...
	Total employees.....	30,612	284	340	606	1,732	1,440	4,757	5,081	3,637	12,732	...
	Total payroll.....\$1,000..	132,070	904	1,181	2,137	6,608	5,768	19,409	23,162	15,662	57,238	...
	Production workers:											
	Number.....	25,675	245	288	517	1,462	1,189	4,023	4,212	3,143	10,593	...
	Man-hours.....1,000..	50,706	467	547	915	2,707	2,446	7,890	8,437	6,055	21,239	...
	Wages.....\$1,000..	102,346	695	894	1,578	4,610	4,273	14,917	17,748	12,669	44,960	...
	Value added by mfg....do....	240,944	1,851	2,367	3,535	11,799	10,954	31,632	45,600	36,783	96,419	...
	Cost of materials.....do....	202,315	2,742	2,635	4,669	14,481	11,644	33,665	30,940	25,244	76,293	...
	Value of shipments.....do....	443,260	4,594	5,002	8,205	26,281	22,598	65,298	76,541	62,027	172,712	...
	Capital expenditures.....do....	12,286	(1)	(1)	(1)	1,955	795	698	1,680	625	6,145	...
	Horsepower.....1,000 hp..	184	2	1	1	9	6	41	35	16	73	...
	Electricity used..mil. kwh..	242	4	3	5	9	9	30	47	30	105	...
3439	Heating and cooking equipment, nec:											
	Number of establishments....	899	220	124	130	159	81	101	42	37	5	...
	Total employees.....	75,276	515	840	1,894	4,970	5,584	15,696	14,727	25,295	5,752	...
	Total payroll.....\$1,000..	319,272	1,571	3,176	7,329	20,605	23,112	63,208	61,582	113,082	25,605	...
	Production workers:											
	Number.....	57,131	372	601	1,419	3,824	4,369	12,297	11,163	18,894	4,189	...
	Man-hours.....1,000..	111,792	693	1,153	2,647	7,449	8,548	24,105	22,264	36,484	8,446	...
	Wages.....\$1,000..	214,231	1,121	2,154	4,816	13,531	15,496	43,911	41,379	72,987	18,831	...
	Value added by mfg....do....	587,523	3,012	5,255	13,001	35,991	39,510	113,109	125,641	200,472	51,529	...
	Cost of materials.....do....	559,086	3,968	6,997	14,377	40,449	40,663	118,389	105,378	187,610	41,251	...
	Value of shipments.....do....	1,146,608	6,981	12,253	27,379	76,440	80,172	231,498	231,019	388,082	92,781	...
	Capital expenditures.....do....	23,663	(1)	(1)	516	1,077	1,358	3,320	5,128	9,238	2,571	...
	Horsepower.....1,000 hp..	292	2	1	6	18	19	57	59	105	25	...
	Electricity used..mil. kwh..	401	5	3	8	17	21	74	86	142	45	...
3441	Structural and ornamental work:											
	Number of establishments....	2,917	1,012	494	442	481	234	170	55	22	6	1
	Total employees.....	116,274	2,432	3,444	6,273	15,269	16,409	26,939	18,339	14,260	12,906	(D)
	Total payroll.....\$1,000..	527,386	7,212	13,306	26,467	69,589	78,332	125,348	82,564	64,308	60,258	(D)
	Production workers:											
	Number.....	88,065	1,763	2,580	4,694	11,562	12,146	19,863	14,189	11,099	10,166	(D)
	Man-hours.....1,000..	179,901	3,457	5,189	9,396	23,011	24,796	41,525	29,689	22,624	20,211	(D)
	Wages.....\$1,000..	352,662	5,175	9,512	17,784	44,571	48,353	79,841	57,257	46,668	43,498	(D)
	Value added by mfg....do....	909,782	15,722	22,823	41,734	113,528	126,967	208,462	150,003	129,084	101,456	(D)
	Cost of materials.....do....	900,189	14,960	22,107	43,703	122,019	122,830	223,881	148,338	103,779	98,568	(D)
	Value of shipments.....do....	1,809,971	30,682	44,931	85,438	235,548	249,797	432,344	298,341	232,863	200,024	(D)
	Capital expenditures.....do....	37,768	1,505	1,153	2,084	4,966	5,988	9,337	5,230	4,965	2,536	(D)
	Horsepower.....1,000 hp..	645	13	6	25	75	79	138	121	97	91	(D)
	Electricity used..mil. kwh..	522	13	8	19	46	53	127	84	85	87	(D)
3442	Metal doors, sash, and trim:											
	Number of establishments....	1,106	299	203	218	213	87	54	21	8	3	...
	Total employees.....	43,284	778	1,475	3,164	6,703	5,944	8,626	7,162	5,148	4,281	...
	Total payroll.....\$1,000..	184,174	2,594	5,739	11,427	26,943	23,921	36,488	28,750	25,549	22,761	...
	Production workers:											
	Number.....	33,028	601	1,150	2,427	5,224	4,552	6,584	5,330	3,671	3,486	...
	Man-hours.....1,000..	66,490	1,205	2,347	4,755	10,398	9,017	13,451	10,834	7,662	6,817	...
	Wages.....\$1,000..	125,317	1,776	3,980	7,695	17,726	15,726	24,519	19,469	16,588	17,886	...
	Value added by mfg....do....	334,956	6,141	11,141	21,634	47,548	40,944	66,971	52,035	44,293	44,246	...
	Cost of materials.....do....	303,545	8,036	14,156	26,415	51,156	42,416	63,072	35,734	30,318	32,241	...
	Value of shipments.....do....	638,501	14,178	25,297	48,049	98,704	83,361	130,043	87,769	74,611	76,488	...
	Capital expenditures.....do....	22,097	567	689	1,241	2,200	2,086	2,929	1,453	9,386	1,542	...
	Horsepower.....1,000 hp..	103	2	2	3	11	18	17	15	16	19	...
	Electricity used..mil. kwh..	181	12	7	12	17	22	30	39	21	21	...

See footnotes at end of table.

SIZE OF ESTABLISHMENTS

203-69

Table 1.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR MAJOR INDUSTRY GROUPS AND INDUSTRIES: 1954—Con.

Code	Industry group, industry, and item	Total, all estab- lish- ments	Establishments with an average of—									
			1-4 em- ployees	5-9 em- ployees	10-19 em- ployees	20-49 em- ployees	50-99 em- ployees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
3443	<u>Boiler shop products:</u>											
	Number of establishments....	977	196	128	172	239	117	73	19	24	6	3
	Total employees.....	74,373	525	954	2,525	7,577	8,148	11,634	6,985	16,229	7,374	12,418
	Total payroll.....\$1,000..	342,069	1,687	3,854	11,004	34,309	39,079	54,455	31,877	73,691	38,398	53,713
	Production workers:											
	Number.....	57,217	449	815	2,044	6,044	6,484	8,710	5,226	12,932	5,348	9,162
	Man-hours.....1,000..	115,994	853	1,630	4,025	12,002	13,504	17,860	10,575	26,506	11,078	17,958
	Wages.....\$1,000..	239,967	1,325	3,032	7,863	23,599	27,130	35,973	21,893	54,712	26,201	38,236
	Value added by mfg....do....	578,568	3,207	6,375	17,179	54,644	60,635	85,249	63,846	126,834	65,899	94,698
	Cost of materials.....do....	555,102	3,761	7,052	16,486	52,792	63,445	76,569	57,407	125,999	79,884	71,702
	Value of shipments.....do....	1,133,670	6,968	13,428	33,666	107,436	124,081	161,818	121,254	252,833	145,783	166,400
	Capital expenditures..do....	23,561	(1)	(1)	1,011	2,776	2,490	3,280	1,555	6,319	2,017	3,370
	Horsepower.....1,000 hp..	646	35	7	16	67	83	107	59	128	50	94
	Electricity used..mil. kwh..	505	51	7	12	37	45	63	44	84	43	119
3444	<u>Sheet-metal work:</u>											
	Number of establishments....	2,421	969	463	439	349	117	67	11	5	1	...
	Total employees.....	50,190	2,413	3,253	6,222	10,774	8,328	9,739	3,986	5,472	(D)	...
	Total payroll.....\$1,000..	227,272	7,740	12,335	26,318	47,598	39,731	45,955	19,152	28,438	(D)	...
	Production workers:											
	Number.....	38,597	1,886	2,606	4,882	8,584	6,386	7,202	2,973	4,074	(D)	...
	Man-hours.....1,000..	77,639	3,716	5,112	9,538	16,714	13,090	14,778	5,896	8,792	(D)	...
	Wages.....\$1,000..	155,971	5,782	9,524	18,506	32,616	26,777	30,704	12,932	19,126	(D)	...
	Value added by mfg....do....	380,327	16,348	21,499	45,763	80,778	62,472	67,884	30,238	55,342	(D)	...
	Cost of materials.....do....	358,151	13,602	18,373	37,898	77,268	50,921	56,393	23,577	80,116	(D)	...
	Value of shipments.....do....	738,481	29,949	39,873	83,666	158,046	113,393	124,277	53,816	135,458	(D)	...
	Capital expenditures..do....	18,770	1,211	1,303	2,356	3,367	3,237	3,359	847	3,085	(D)	...
	Horsepower.....1,000 hp..	137	9	4	12	29	18	25	10	30	(D)	...
	Electricity used..mil. kwh..	161	6	9	17	26	21	26	12	44	(D)	...
3461	<u>Vitreous-enameled products:</u>											
	Number of establishments....	51	3	6	9	10	4	8	9	...	2	...
	Total employees.....	7,272	7	44	130	322	250	1,424	5,093	...	(D)	...
	Total payroll.....\$1,000..	25,366	25	166	522	1,044	903	5,535	17,170	...	(D)	...
	Production workers:											
	Number.....	6,040	5	38	115	284	213	1,180	4,204	...	(D)	...
	Man-hours.....1,000..	11,089	8	66	223	572	461	2,268	7,488	...	(D)	...
	Wages.....\$1,000..	19,270	9	113	375	828	725	4,121	13,097	...	(D)	...
	Value added by mfg....do....	36,618	40	273	940	1,572	1,286	8,422	24,083	...	(D)	...
	Cost of materials.....do....	28,904	64	312	860	1,589	732	4,396	20,949	...	(D)	...
	Value of shipments.....do....	65,523	105	585	1,801	3,161	2,018	12,818	45,033	...	(D)	...
	Capital expenditures..do....	1,222	...	(1)	(1)	(1)	(1)	(1)	697	...	(D)	...
	Horsepower.....1,000 hp..	30	1	(2)	1	(2)	1	4	23	...	(D)	...
	Electricity used..mil. kwh..	52	1	(3)	1	1	1	4	44	...	(D)	...
3463	<u>Metal stampings:</u>											
	Number of establishments....	2,269	587	361	424	417	220	156	64	28	10	2
	Total employees.....	128,200	1,475	2,634	6,216	13,253	15,678	24,291	22,060	20,496	22,095	(D)
	Total payroll.....\$1,000..	569,467	4,425	9,838	25,060	55,334	68,744	108,327	95,375	97,011	105,352	(D)
	Production workers:											
	Number.....	106,298	1,261	2,247	5,185	11,171	13,032	20,202	18,248	17,242	17,708	(D)
	Man-hours.....1,000..	214,598	2,506	4,458	10,337	22,179	26,924	42,170	36,657	34,531	34,834	(D)
	Wages.....\$1,000..	421,482	3,416	7,581	17,948	39,377	49,069	79,303	72,166	73,837	78,782	(D)
	Value added by mfg....do....	923,939	9,589	18,087	41,865	91,613	114,903	171,232	154,841	163,426	158,378	(D)
	Cost of materials.....do....	803,605	8,052	12,837	29,782	67,492	88,730	149,412	145,228	158,736	143,334	(D)
	Value of shipments.....do....	1,727,544	17,642	30,925	71,647	159,108	203,630	320,645	300,070	322,162	301,712	(D)
	Capital expenditures..do....	38,068	983	974	2,061	4,011	4,310	7,377	7,136	7,657	3,556	(D)
	Horsepower.....1,000 hp..	676	7	6	24	62	63	142	132	96	144	(D)
	Electricity used..mil. kwh..	784	15	11	27	46	61	118	167	151	188	(D)
3465	<u>Enameling and lacquering:</u>											
	Number of establishments....	380	134	98	69	61	13	5	..	...	...	...
	Total employees.....	5,503	343	684	1,008	1,728	921	817	...	...	...	...
	Total payroll.....\$1,000..	19,134	883	2,000	3,509	6,584	3,585	2,571	...	...	...	...
	Production workers:											
	Number.....	4,735	290	604	869	1,442	816	712	...	...	...	...
	Man-hours.....1,000..	9,074	557	1,141	1,723	2,894	1,607	1,150	...	...	...	...
	Wages.....\$1,000..	14,426	705	1,634	2,762	4,690	2,685	1,947	...	...	...	...
	Value added by mfg....do....	29,992	1,991	3,382	5,459	10,199	5,150	3,808	...	...	...	...
	Cost of materials.....do....	15,097	1,105	1,297	3,493	4,597	3,600	1,005	...	...	...	...
	Value of shipments.....do....	45,090	3,096	4,680	8,952	14,796	8,751	4,813	...	...	...	...
	Capital expenditures..do....	1,371	(1)	(1)	(1)	(1)	(1)	(1)	...	...	...	...
	Horsepower.....1,000 hp..	15	2	3	3	4	1	2	...	...	...	...
	Electricity used..mil. kwh..	28	3	2	4	6	4	9	...	...	...	...

See footnotes at end of table.

Table 1.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR MAJOR INDUSTRY GROUPS AND INDUSTRIES: 1954—Con.

Code	Industry group, industry, and item	Total, all estab- lish- ments	Establishments with an average of—									
			1-4 em- ployees	5-9 em- ployees	10-19 em- ployees	20-49 em- ployees	50-99 em- ployees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
3466	Galvanizing:											
	Number of establishments....	133	39	21	29	31	8	4	1	...	...	...
	Total employees.....	3,178	115	157	395	990	562	957	(D)	...	...	...
	Total payroll.....\$1,000..	12,561	366	567	1,456	4,125	2,348	3,697	(D)	...	...	...
	Production workers:											
	Number.....	2,685	94	137	335	830	480	807	(D)	...	...	...
	Man-hours.....1,000..	5,604	189	277	681	1,690	970	1,795	(D)	...	...	...
	Wages.....\$1,000..	9,232	279	450	1,100	2,972	1,692	2,737	(D)	...	...	...
	Value added by mfg....do....	19,945	666	998	2,695	6,762	3,914	4,908	(D)	...	...	...
	Cost of materials.....do....	11,736	376	681	2,005	3,302	2,425	2,945	(D)	...	...	...
	Value of shipments.....do....	31,681	1,043	1,679	4,701	10,065	6,339	7,853	(D)	...	...	...
	Capital expenditures..do....	1,193	(1)	(1)	(1)	512	(1)	146	(D)	...	...	...
	Horsepower.....1,000 hp..	4	(2)	(2)	(2)	3	1	(2)	(D)	...	...	...
	Electricity used..mil. kwh..	13	(3)	1	2	3	4	2	(D)	...	...	...
3467	Engraving on metal:											
	Number of establishments....	269	167	34	28	27	4	8	1	...	...	...
	Total employees.....	3,624	371	221	382	780	240	1,628	(D)	...	...	...
	Total payroll.....\$1,000..	13,930	1,002	884	1,341	3,154	914	6,634	(D)	...	...	...
	Production workers:											
	Number.....	3,030	315	182	328	658	200	1,345	(D)	...	...	...
	Man-hours.....1,000..	6,119	641	372	652	1,284	424	2,744	(D)	...	...	...
	Wages.....\$1,000..	10,081	829	591	1,026	2,308	633	4,691	(D)	...	...	...
	Value added by mfg....do....	20,508	2,278	1,428	1,989	4,695	1,245	8,870	(D)	...	...	...
	Cost of materials.....do....	6,856	631	312	483	1,315	391	3,722	(D)	...	...	...
	Value of shipments.....do....	27,365	2,909	1,741	2,473	6,011	1,637	12,593	(D)	...	...	...
	Capital expenditures..do....	845	(1)	(1)	(1)	(1)	(1)	(1)	(D)	...	...	...
	Horsepower.....1,000 hp..	5	(2)	(2)	(2)	1	1	4	(D)	...	...	...
	Electricity used..mil. kwh..	7	(3)	(3)	(3)	2	(3)	2	(D)	...	...	...
3468	Plating and polishing:											
	Number of establishments....	2,451	1,029	500	457	334	99	30	...	1	1	...
	Total employees.....	36,066	2,558	3,606	6,437	10,043	6,757	6,661	...	(D)	(D)	...
	Total payroll.....\$1,000..	136,933	7,359	12,564	23,814	38,612	26,388	28,194	...	(D)	(D)	...
	Production workers:											
	Number.....	31,221	2,226	3,192	5,563	8,695	5,802	5,741	...	(D)	(D)	...
	Man-hours.....1,000..	62,878	4,284	6,307	11,085	17,006	11,643	12,551	...	(D)	(D)	...
	Wages.....\$1,000..	105,443	5,891	10,153	18,190	29,243	20,028	21,936	...	(D)	(D)	...
	Value added by mfg....do....	214,070	16,198	21,593	38,611	62,847	40,740	34,078	...	(D)	(D)	...
	Cost of materials.....do....	90,282	6,286	6,920	13,087	21,963	18,042	23,981	...	(D)	(D)	...
	Value of shipments.....do....	304,352	22,485	28,514	51,699	84,811	58,782	58,060	...	(D)	(D)	...
	Capital expenditures..do....	12,862	1,715	1,001	1,938	3,887	1,962	2,356	...	(D)	(D)	...
	Horsepower.....1,000 hp..	214	5	11	29	60	63	46	...	(D)	(D)	...
	Electricity used..mil. kwh..	356	23	31	60	92	65	85	...	(D)	(D)	...
3471	Lighting fixtures:											
	Number of establishments....	1,228	452	190	205	205	97	53	17	6	2	1
	Total employees.....	45,078	1,094	1,350	2,962	6,500	6,861	8,389	5,856	4,031	8,031	(D)
	Total payroll.....\$1,000..	181,951	3,006	4,526	10,324	23,200	26,657	32,218	22,691	19,154	40,172	(D)
	Production workers:											
	Number.....	36,361	912	1,091	2,376	5,159	5,475	6,842	4,801	2,930	6,771	(D)
	Man-hours.....1,000..	73,660	1,725	2,099	4,525	10,464	11,031	13,779	9,745	6,130	14,159	(D)
	Wages.....\$1,000..	128,759	2,226	3,151	7,017	15,251	17,688	22,258	15,892	12,277	32,995	(D)
	Value added by mfg....do....	323,711	7,712	8,987	20,858	44,837	45,934	60,519	43,084	34,032	57,744	(D)
	Cost of materials.....do....	317,858	11,629	11,595	24,116	49,624	44,393	55,234	37,505	26,600	57,158	(D)
	Value of shipments.....do....	641,569	19,342	20,583	44,975	94,462	90,328	115,753	80,590	60,632	114,902	(D)
	Capital expenditures..do....	14,217	(1)	(1)	(1)	987	937	1,502	1,793	581	7,457	(D)
	Horsepower.....1,000 hp..	142	(2)	1	3	8	11	17	12	7	83	(D)
	Electricity used..mil. kwh..	291	7	9	17	24	24	29	25	31	125	(D)
3481	Nails and spikes:											
	Number of establishments....	77	21	10	9	21	13	2	1	...	...	...
	Total employees.....	2,701	48	65	115	780	1,010	681	(D)	...	...	...
	Total payroll.....\$1,000..	10,420	134	202	403	3,148	3,695	2,836	(D)	...	...	...
	Production workers:											
	Number.....	2,324	42	57	90	673	863	597	(D)	...	...	...
	Man-hours.....1,000..	4,776	74	107	168	1,392	1,731	1,301	(D)	...	...	...
	Wages.....\$1,000..	7,550	93	153	257	2,071	2,714	2,260	(D)	...	...	...
	Value added by mfg....do....	18,447	285	320	662	5,890	6,180	5,107	(D)	...	...	...
	Cost of materials.....do....	15,330	446	608	592	5,465	5,267	2,950	(D)	...	...	...
	Value of shipments.....do....	33,778	732	928	1,255	11,356	11,447	8,057	(D)	...	...	...
	Capital expenditures..do....	610	(1)	(1)	(1)	(1)	(1)	74	(D)	...	...	...
	Horsepower.....1,000 hp..	7	(2)	1	(2)	1	3	2	(D)	...	...	...
	Electricity used..mil. kwh..	12	1	1	(3)	2	4	4	(D)	...	...	...

See footnotes at end of table.

SIZE OF ESTABLISHMENTS

203-71

Table 1.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR MAJOR INDUSTRY GROUPS AND INDUSTRIES: 1954—Con.

Code	Industry group, industry, and item	Total, all estab- lish- ments	Establishments with an average of—									
			1-4 em- ployees	5-9 em- ployees	10-19 em- ployees	20-49 em- ployees	50-99 em- ployees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
3489	Wirework, nec:											
	Number of establishments....	1,275	406	183	188	225	133	93	31	13	3	...
	Total employees.....	59,929	1,014	1,304	2,602	7,157	9,554	14,494	10,924	9,075	3,801	...
	Total payroll.....\$1,000..	243,904	2,714	4,069	9,465	25,304	38,225	58,794	46,604	40,870	17,856	...
	Production workers:											
	Number.....	50,067	862	1,090	2,149	5,980	8,071	12,122	9,163	7,541	3,086	...
	Man-hours.....1,000..	99,329	1,636	2,089	4,196	11,585	16,189	24,846	17,598	15,273	5,914	...
	Wages.....\$1,000..	181,835	2,088	3,075	6,638	17,816	27,535	43,645	35,901	31,611	13,523	...
	Value added by mfg....do....	412,368	7,056	8,065	16,486	42,275	61,513	100,699	86,081	62,198	27,992	...
	Cost of materials.....do....	332,397	6,608	7,294	13,571	39,947	53,478	84,687	67,183	46,232	13,394	...
	Value of shipments.....do....	744,766	13,665	15,360	30,058	82,223	114,992	185,387	153,264	108,430	41,386	...
	Capital expenditures.....do....	17,502	740	720	784	2,127	3,746	3,418	2,551	2,255	1,159	...
	Horsepower.....1,000 hp..	186	2	2	6	17	25	52	31	36	15	...
	Electricity used..mil. kwh..	269	5	5	9	20	36	62	61	53	18	...
3491	Metal barrels, drums, and pails:											
	Number of establishments....	93	17	10	3	18	16	14	11	3	1	...
	Total employees.....	10,585	162	(D)	(D)	615	1,101	2,241	3,574	2,890	(D)	...
	Total payroll.....\$1,000..	48,501	588	(D)	(D)	2,721	4,480	9,612	17,037	14,061	(D)	...
	Production workers:											
	Number.....	8,687	152	(D)	(D)	546	973	1,891	2,898	2,226	(D)	...
	Man-hours.....1,000..	17,924	290	(D)	(D)	1,138	2,135	4,003	5,935	4,421	(D)	...
	Wages.....\$1,000..	37,058	514	(D)	(D)	2,006	3,634	7,732	13,029	10,141	(D)	...
	Value added by mfg....do....	85,865	1,343	(D)	(D)	6,748	10,326	21,350	25,825	20,271	(D)	...
	Cost of materials.....do....	131,374	2,709	(D)	(D)	10,489	15,732	32,234	41,547	28,661	(D)	...
	Value of shipments.....do....	217,239	4,054	(D)	(D)	17,237	26,058	53,585	67,372	48,932	(D)	...
	Capital expenditures.....do....	5,860	(1)	(D)	(D)	(1)	516	996	2,277	1,638	(D)	...
	Horsepower.....1,000 hp..	63	1	(D)	(D)	4	7	17	21	13	(D)	...
	Electricity used..mil. kwh..	86	2	(D)	(D)	4	8	20	28	24	(D)	...
3492	Safes and vaults:											
	Number of establishments....	26	8	2	6	3	3	1	...	2	1	...
	Total employees.....	3,442	31	(D)	84	100	3,225	(D)	...	(D)	(D)	...
	Total payroll.....\$1,000..	15,030	101	(D)	339	490	14,098	(D)	...	(D)	(D)	...
	Production workers:											
	Number.....	2,581	25	(D)	66	72	2,415	(D)	...	(D)	(D)	...
	Man-hours.....1,000..	5,050	53	(D)	142	156	4,696	(D)	...	(D)	(D)	...
	Wages.....\$1,000..	10,341	89	(D)	243	291	9,715	(D)	...	(D)	(D)	...
	Value added by mfg....do....	28,974	239	(D)	740	622	27,371	(D)	...	(D)	(D)	...
	Cost of materials.....do....	11,054	225	(D)	402	395	10,029	(D)	...	(D)	(D)	...
	Value of shipments.....do....	40,029	465	(D)	1,143	1,018	37,402	(D)	...	(D)	(D)	...
	Capital expenditures.....do....	714	(1)	(D)	(1)	(1)	671	(D)	...	(D)	(D)	...
	Horsepower.....1,000 hp..	10	(2)	(D)	(2)	(2)	10	(D)	...	(D)	(D)	...
	Electricity used..mil. kwh..	16	(3)	(D)	(3)	(3)	16	(D)	...	(D)	(D)	...
3493	Steel springs:											
	Number of establishments....	101	22	21	15	13	12	7	9	2	...	...
	Total employees.....	7,078	58	157	210	391	835	1,124	4,301	(D)	...	...
	Total payroll.....\$1,000..	33,304	245	606	863	1,735	3,737	5,102	21,014	(D)	...	...
	Production workers:											
	Number.....	5,650	40	113	150	294	695	871	3,485	(D)	...	...
	Man-hours.....1,000..	11,429	84	223	309	589	1,456	1,649	7,117	(D)	...	...
	Wages.....\$1,000..	24,510	143	379	528	1,131	2,779	3,461	16,087	(D)	...	...
	Value added by mfg....do....	50,152	844	1,045	1,341	2,920	5,681	6,215	32,104	(D)	...	...
	Cost of materials.....do....	65,540	1,017	814	1,248	1,583	5,604	8,661	46,611	(D)	...	...
	Value of shipments.....do....	115,692	1,861	1,860	2,590	4,504	11,286	14,876	78,715	(D)	...	...
	Capital expenditures.....do....	36,127	(1)	(1)	(1)	(1)	(1)	(1)	35,348	(D)	...	...
	Horsepower.....1,000 hp..	79	(2)	1	(2)	2	3	11	62	(D)	...	...
	Electricity used..mil. kwh..	94	1	2	1	2	3	9	76	(D)	...	...
3494	Bolts, nuts, washers, and rivets:											
	Number of establishments....	457	99	47	55	75	62	61	26	24	8	...
	Total employees.....	53,729	240	336	771	2,468	4,406	9,354	8,783	17,153	10,215	...
	Total payroll.....\$1,000..	246,235	762	1,281	3,213	10,880	21,488	42,220	38,959	79,327	48,103	...
	Production workers:											
	Number.....	42,309	176	256	584	1,941	3,528	7,529	7,012	13,237	8,045	...
	Man-hours.....1,000..	86,427	347	495	1,131	3,875	7,456	15,250	14,168	27,240	16,462	...
	Wages.....\$1,000..	173,019	503	830	2,046	7,177	14,298	29,721	27,742	55,875	34,825	...
	Value added by mfg....do....	411,662	2,095	2,852	6,609	19,561	38,669	74,901	72,489	118,328	76,156	...
	Cost of materials.....do....	287,863	1,911	2,465	4,576	16,328	32,633	54,296	51,130	82,747	41,774	...
	Value of shipments.....do....	699,523	4,007	5,317	11,186	35,890	71,302	129,195	123,619	201,075	117,930	...
	Capital expenditures.....do....	26,090	(1)	(1)	(1)	1,386	2,943	5,423	5,528	6,153	3,872	...
	Horsepower.....1,000 hp..	312	26	1	3	12	22	56	41	78	73	...
	Electricity used..mil. kwh..	358	14	3	4	10	25	52	55	123	72	...

See footnotes at end of table.

Table 1.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR MAJOR INDUSTRY GROUPS AND INDUSTRIES: 1954—Con.

Code	Industry group, industry, and item	Total, all estab- lish- ments	Establishments with an average of—									
			1-4 em- ployees	5-9 em- ployees	10-19 em- ployees	20-49 em- ployees	50-99 em- ployees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
3495	<u>Screw machine products:</u>											
	Number of establishments....	1,795	712	354	318	266	93	37	12	3	...	...
	Total employees.....	35,009	1,746	2,530	4,520	8,203	6,371	5,161	6,475	(D)	...	...
	Total payroll.....\$1,000..	151,444	5,484	10,076	18,724	36,256	28,683	22,900	29,318	(D)	...	...
	Production workers:											
	Number.....	29,694	1,499	2,164	3,793	6,923	5,434	4,355	5,524	(D)	...	...
	Man-hours.....1,000..	61,030	2,925	4,446	7,667	14,355	11,279	9,194	11,161	(D)	...	...
	Wages.....\$1,000..	112,641	4,324	7,654	13,773	25,899	21,176	17,187	22,625	(D)	...	...
	Value added by mfg....do....	246,886	12,830	18,264	31,899	57,450	43,054	34,698	48,687	(D)	...	...
	Cost of materials.....do....	154,562	8,013	11,565	19,002	36,706	31,374	20,941	26,959	(D)	...	...
	Value of shipments.....do....	401,449	20,844	29,830	50,902	94,157	74,428	55,640	75,646	(D)	...	...
	Capital expenditures.....do....	11,886	1,442	1,356	1,791	3,022	1,998	792	1,481	(D)	...	...
	Horsepower.....1,000 hp..	186	6	9	21	59	33	22	36	(D)	...	...
	Electricity used..mil. kwh..	144	5	9	19	35	26	18	32	(D)	...	...
3496	<u>Collapsible tubes:</u>											
	Number of establishments....	21	...	1	2	...	5	6	5	2	...	...
	Total employees.....	4,302	...	40	(D)	...	331	1,004	2,926	(D)	...	...
	Total payroll.....\$1,000..	14,934	...	120	(D)	...	1,019	3,715	10,079	(D)	...	...
	Production workers:											
	Number.....	3,856	...	33	(D)	...	293	867	2,661	(D)	...	...
	Man-hours.....1,000..	7,643	...	74	(D)	...	604	1,676	5,287	(D)	...	...
	Wages.....\$1,000..	11,783	...	97	(D)	...	798	2,818	8,068	(D)	...	...
	Value added by mfg....do....	22,239	...	187	(D)	...	1,480	5,969	14,601	(D)	...	...
	Cost of materials.....do....	14,654	...	207	(D)	...	1,238	3,483	9,725	(D)	...	...
	Value of shipments.....do....	36,893	...	394	(D)	...	2,719	9,452	24,327	(D)	...	...
	Capital expenditures.....do....	1,369	...	(1)	(D)	...	(1)	(1)	858	(D)	...	...
	Horsepower.....1,000 hp..	8	...	(2)	(D)	...	(2)	2	6	(D)	...	...
	Electricity used..mil. kwh..	24	...	(3)	(D)	...	1	4	19	(D)	...	...
3497	<u>Metal foil:</u>											
	Number of establishments....	66	14	8	12	8	3	11	8	2	...	...
	Total employees.....	6,713	31	55	178	321	208	1,605	4,314	(D)	...	...
	Total payroll.....\$1,000..	28,693	66	198	638	1,381	1,011	7,172	18,226	(D)	...	...
	Production workers:											
	Number.....	5,550	25	43	143	261	165	1,242	3,668	(D)	...	...
	Man-hours.....1,000..	11,529	47	78	271	542	376	2,701	7,512	(D)	...	...
	Wages.....\$1,000..	21,981	51	118	467	964	700	4,986	14,692	(D)	...	...
	Value added by mfg....do....	62,604	168	381	1,866	2,912	2,059	18,309	36,907	(D)	...	...
	Cost of materials.....do....	118,133	295	620	2,593	3,868	4,536	37,091	69,127	(D)	...	...
	Value of shipments.....do....	180,737	463	1,001	4,460	6,780	6,595	55,400	106,036	(D)	...	...
	Capital expenditures.....do....	5,423	(1)	(1)	(1)	(1)	(1)	2,590	2,309	(D)	...	...
	Horsepower.....1,000 hp..	85	(2)	(2)	(2)	1	2	27	55	(D)	...	...
	Electricity used..mil. kwh..	95	(3)	(3)	2	1	2	36	54	(D)	...	...
3499	<u>Fabricated metal products, nec:</u>											
	Number of establishments....	1,026	528	184	131	108	43	23	8	1	...	...
	Total employees.....	18,069	1,266	1,297	1,847	3,553	2,993	3,581	3,522	(D)	...	...
	Total payroll.....\$1,000..	68,191	3,482	4,466	6,401	12,496	11,733	13,374	16,237	(D)	...	...
	Production workers:											
	Number.....	14,556	996	1,040	1,489	2,932	2,340	2,903	2,852	(D)	...	...
	Man-hours.....1,000..	28,228	1,785	1,955	2,762	5,559	4,456	5,570	6,138	(D)	...	...
	Wages.....\$1,000..	47,982	2,495	3,181	4,316	8,656	7,629	9,417	12,285	(D)	...	...
	Value added by mfg....do....	129,464	8,181	8,090	10,824	22,206	24,044	22,602	33,514	(D)	...	...
	Cost of materials.....do....	108,352	7,377	6,772	9,379	19,189	22,760	22,260	20,613	(D)	...	...
	Value of shipments.....do....	237,815	15,557	14,862	20,201	41,395	46,805	44,862	54,128	(D)	...	...
	Capital expenditures.....do....	8,088	715	539	723	1,173	996	1,831	2,107	(D)	...	...
	Horsepower.....1,000 hp..	73	3	2	3	9	24	15	17	(D)	...	...
	Electricity used..mil. kwh..	113	8	8	8	13	13	16	47	(D)	...	...
35	<u>Machinery, except electrical:</u>											
	Number of establishments....	25,601	9,623	4,427	4,029	3,629	1,584	1,168	551	317	209	64
	Total employees.....	1,541,675	23,280	31,610	57,478	113,037	110,806	183,714	193,263	220,463	319,351	288,627
	Total payroll.....\$1,000..	7,190,563	76,767	131,517	254,639	525,544	536,884	871,414	906,779	1,021,439	1,493,914	1,371,554
	Production workers:											
	Number.....	1,171,323	18,718	25,676	46,316	89,716	85,317	138,000	141,830	162,370	239,424	223,812
	Man-hours.....1,000..	2,369,610	37,254	52,924	94,300	185,615	178,207	287,441	288,864	327,176	476,472	441,221
	Wages.....\$1,000..	4,979,972	57,779	99,205	185,492	364,615	359,091	578,350	594,367	698,706	1,048,696	993,538
	Value added by mfg....do....	12,338,914	170,966	225,206	413,356	848,230	887,387	1,551,347	1,573,813	1,826,729	2,509,707	2,332,158
	Cost of materials.....do....	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)
	Value of shipments.....do....	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)
	Capital expenditures.....do....	713,808	14,534	14,102	25,099	40,407	64,141	69,400	60,861	118,372	148,774	157,991
	Horsepower.....1,000 hp..	7,306	138	71	198	461	503	789	883	1,078	1,732	1,453
	Electricity used..mil. kwh..	8,058	213	89	173	308	370	734	906	1,149	2,044	2,072

See footnotes at end of table.

SIZE OF ESTABLISHMENTS

203-73

Table 1.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR MAJOR INDUSTRY GROUPS AND INDUSTRIES: 1954—Con.

Code	Industry group, industry, and item	Total, all estab- lish- ments	Establishments with an average of—									
			1-4 em- ployees	5-9 em- ployees	10-19 em- ployees	20-49 em- ployees	50-99 em- ployees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
3511	<u>Steam engines and turbines:</u>											
	Number of establishments....	22	1	...	3	1	1	7	...	3	3	3
	Total employees.....	30,178	132	...	(D)	(D)	(D)	1,153	...	2,501	26,388	(D)
	Total payroll.....\$1,000..	158,861	575	...	(D)	(D)	(D)	5,405	...	12,473	140,404	(D)
	Production workers:											
	Number.....	21,382	106	...	(D)	(D)	(D)	815	...	1,615	18,843	(D)
	Man-hours.....1,000..	44,821	241	...	(D)	(D)	(D)	1,668	...	3,423	39,485	(D)
	Wages.....\$1,000..	109,650	408	...	(D)	(D)	(D)	3,397	...	7,592	98,250	(D)
	Value added by mfg....do....	295,367	1,130	...	(D)	(D)	(D)	11,437	...	23,332	259,468	(D)
	Cost of materials.....do....	154,673	595	...	(D)	(D)	(D)	5,698	...	15,386	132,993	(D)
	Value of shipments.....do....	450,041	726	...	(D)	(D)	(D)	17,135	...	38,718	392,461	(D)
	Capital expenditures..do....	18,411	(1)	...	(D)	(D)	(D)	696	...	650	17,047	(D)
	Horsepower.....1,000 hp..	269	1	...	(D)	(D)	(D)	6	...	18	244	(D)
	Electricity used..mil. kwh..	244	(3)	...	(D)	(D)	(D)	9	...	16	219	(D)
3519	<u>Internal combustion engines:</u>											
	Number of establishments....	119	27	12	10	12	6	9	15	11	13	4
	Total employees.....	51,777	68	82	165	377	438	1,846	5,193	8,010	22,573	13,023
	Total payroll.....\$1,000..	241,125	251	342	717	1,304	1,900	7,603	22,551	37,156	105,953	63,345
	Production workers:											
	Number.....	39,273	52	62	128	290	324	1,290	3,874	5,859	17,563	9,828
	Man-hours.....1,000..	77,139	111	132	254	555	627	2,614	7,981	12,347	33,543	18,972
	Wages.....\$1,000..	168,696	179	242	476	905	1,237	4,863	15,716	25,374	75,685	44,016
	Value added by mfg....do....	394,763	635	521	1,070	2,389	3,662	9,428	37,307	60,659	170,274	108,817
	Cost of materials.....do....	496,263	894	345	1,197	3,046	4,634	14,192	54,707	75,363	221,299	120,584
	Value of shipments.....do....	891,027	1,529	867	2,267	5,436	8,296	23,620	92,015	136,022	391,573	229,401
	Capital expenditures..do....	21,640	(1)	(1)	(1)	(1)	(1)	(1)	1,096	3,750	9,820	6,035
	Horsepower.....1,000 hp..	352	1	(2)	(2)	1	3	7	53	57	158	72
	Electricity used..mil. kwh..	350	3	(3)	(3)	1	1	6	34	50	173	82
3521	<u>Tractors:</u>											
	Number of establishments....	154	50	13	17	27	9	9	7	7	7	8
	Total employees.....	64,742	125	99	254	857	609	1,247	2,279	4,834	10,784	43,651
	Total payroll.....\$1,000..	287,118	322	334	936	3,388	2,456	4,962	10,035	21,071	47,336	196,274
	Production workers:											
	Number.....	49,543	96	81	197	628	456	949	1,532	3,440	7,742	34,418
	Man-hours.....1,000..	95,261	175	143	377	1,237	907	1,889	2,849	6,715	14,516	66,449
	Wages.....\$1,000..	205,993	237	275	628	2,202	1,674	3,368	5,865	14,325	31,896	145,520
	Value added by mfg....do....	516,484	682	652	1,455	5,561	4,357	8,850	14,097	34,888	101,873	344,066
	Cost of materials.....do....	661,489	1,068	808	2,297	6,612	4,860	12,728	27,708	46,329	125,083	433,993
	Value of shipments.....do....	1,177,974	1,750	1,461	3,753	12,174	9,217	21,578	41,805	81,217	226,957	778,060
	Capital expenditures..do....	51,528	(1)	(1)	(1)	(1)	(1)	558	1,374	2,001	5,852	40,957
	Horsepower.....1,000 hp..	484	1	(2)	1	3	4	5	6	48	83	333
	Electricity used..mil. kwh..	605	(3)	(3)	1	3	3	5	9	53	83	448
3522	<u>Farm machinery (except tractors):</u>											
	Number of establishments....	1,206	422	203	184	181	94	62	31	12	15	2
	Total employees.....	74,376	993	1,420	2,566	5,812	6,374	9,365	10,720	8,499	28,624	(D)
	Total payroll.....\$1,000..	315,033	2,575	4,776	8,687	21,482	24,986	37,990	44,641	38,632	131,263	(D)
	Production workers:											
	Number.....	55,971	774	1,129	2,014	4,541	4,959	7,159	7,861	6,298	21,233	(D)
	Man-hours.....1,000..	109,806	1,424	2,242	3,984	8,860	10,146	14,312	15,440	12,531	40,863	(D)
	Wages.....\$1,000..	217,698	1,789	3,321	5,971	13,948	16,185	25,775	30,221	27,813	92,673	(D)
	Value added by mfg....do....	533,886	5,884	8,188	15,224	35,776	47,379	69,859	80,462	71,949	199,161	(D)
	Cost of materials.....do....	561,798	8,125	9,229	16,998	38,345	46,772	78,897	90,328	55,166	217,936	(D)
	Value of shipments.....do....	1,095,685	14,010	17,417	32,222	74,122	94,152	148,756	170,791	127,116	417,097	(D)
	Capital expenditures..do....	24,648	(1)	523	(1)	1,331	1,646	2,688	3,718	2,654	11,261	(D)
	Horsepower.....1,000 hp..	383	7	3	9	21	42	44	54	29	174	(D)
	Electricity used..mil. kwh..	381	16	4	9	16	22	41	50	36	187	(D)
3531	<u>Construction and mining machinery:</u>											
	Number of establishments....	626	132	68	85	124	70	79	29	21	15	3
	Total employees.....	75,698	315	501	1,188	4,001	4,919	12,710	10,226	14,513	19,179	8,140
	Total payroll.....\$1,000..	347,698	1,024	1,997	4,837	16,772	22,353	58,265	52,378	65,261	88,876	35,933
	Production workers:											
	Number.....	55,563	203	350	858	2,932	3,726	9,438	7,526	10,554	14,174	5,796
	Man-hours.....1,000..	110,794	404	669	1,685	5,767	7,613	19,341	15,243	20,699	28,091	11,277
	Wages.....\$1,000..	225,637	634	1,281	3,020	10,365	14,167	38,255	31,164	42,915	60,841	22,990
	Value added by mfg....do....	582,670	2,704	3,768	10,310	28,886	38,093	105,674	76,868	114,102	150,189	52,073
	Cost of materials.....do....	549,662	2,849	4,031	8,738	25,923	32,938	96,112	76,943	107,158	144,758	50,208
	Value of shipments.....do....	1,132,333	5,554	7,800	19,049	54,810	71,032	201,786	153,811	221,260	294,947	102,281
	Capital expenditures..do....	25,292	(1)	(1)	644	1,659	3,178	3,141	4,497	2,975	7,033	1,751
	Horsepower.....1,000 hp..	483	6	2	10	21	30	68	60	83	138	65
	Electricity used..mil. kwh..	441	11	2	6	12	18	48	51	84	147	62

See footnotes at end of table.

Table 1.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR MAJOR INDUSTRY GROUPS AND INDUSTRIES: 1954—Con.

Code	Industry group, industry, and item	Total, all estab- lish- ments	Establishments with an average of—									
			1-4 em- ployees	5-9 em- ployees	10-19 em- ployees	20-49 em- ployees	50-99 em- ployees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
3532	<u>Oil-field mach. and tools:</u>											
	Number of establishments....	345	84	54	49	64	27	33	22	5	6	1
	Total employees.....	33,687	229	372	708	1,998	1,987	5,121	7,568	3,004	12,696	(D)
	Total payroll.....\$1,000..	161,802	797	1,515	3,149	9,297	10,028	24,750	35,697	13,569	62,997	(D)
	Production workers:											
	Number.....	24,143	168	291	515	1,491	1,420	3,675	5,162	2,178	9,239	(D)
	Man-hours.....1,000..	49,577	336	581	1,027	3,198	2,920	7,708	10,545	4,645	18,614	(D)
	Wages.....\$1,000..	102,320	528	1,104	1,943	5,881	5,579	15,496	20,561	9,076	42,149	(D)
	Value added by mfg....do....	318,737	2,003	3,392	6,123	16,975	19,961	50,415	60,200	24,984	134,682	(D)
	Cost of materials.....do....	194,645	1,524	2,534	4,050	13,603	10,574	33,789	42,691	20,243	65,635	(D)
	Value of shipments.....do....	513,383	3,528	5,926	10,173	30,578	30,536	84,205	102,891	45,227	200,317	(D)
	Capital expenditures.....do....	18,188	(1)	(1)	2,611	1,038	855	2,356	3,095	(1)	7,296	(D)
	Horsepower.....1,000 hp..	228	10	1	6	11	15	31	48	18	88	(D)
	Electricity used..mil. kwh..	273	8	2	3	7	8	29	53	20	143	(D)
3541	<u>Machine tools:</u>											
	Number of establishments....	639	221	75	77	89	54	57	34	11	17	4
	Total employees.....	80,959	539	543	1,110	3,005	3,726	10,001	12,438	7,932	26,147	15,515
	Total payroll.....\$1,000..	432,290	1,824	2,384	5,382	14,896	19,603	54,964	68,381	42,693	139,473	82,687
	Production workers:											
	Number.....	62,106	454	456	904	2,441	2,824	7,481	9,717	5,641	19,472	12,712
	Man-hours.....1,000..	133,247	903	983	1,796	4,930	5,950	16,579	21,584	12,074	41,188	27,257
	Wages.....\$1,000..	302,682	1,359	1,764	3,521	10,110	12,656	36,459	48,725	27,967	96,380	63,738
	Value added by mfg....do....	788,219	4,504	4,343	8,007	23,300	32,486	98,980	126,471	86,858	262,886	140,381
	Cost of materials.....do....	358,710	2,224	1,685	3,566	10,793	19,105	59,139	60,784	35,888	104,275	61,248
	Value of shipments.....do....	1,146,932	6,732	6,028	11,572	34,094	51,592	158,120	187,255	122,746	367,161	201,630
	Capital expenditures.....do....	37,683	(1)	(1)	(1)	984	1,114	4,184	4,655	2,932	12,914	9,637
	Horsepower.....1,000 hp..	376	1	1	3	12	16	53	69	29	139	53
	Electricity used..mil. kwh..	377	2	1	3	9	11	44	61	30	131	85
3542	<u>Metalworking machinery:</u>											
	Number of establishments....	501	141	78	60	69	45	49	24	24	10	1
	Total employees.....	59,468	331	561	846	2,333	3,199	7,649	8,547	17,046	18,953	(D)
	Total payroll.....\$1,000..	293,799	1,133	2,386	3,696	12,040	16,279	38,429	44,065	86,075	89,694	(D)
	Production workers:											
	Number.....	44,277	224	401	651	1,749	2,268	5,521	5,990	12,881	14,589	(D)
	Man-hours.....1,000..	92,342	475	838	1,267	3,760	4,696	11,484	12,550	27,605	29,664	(D)
	Wages.....\$1,000..	202,459	808	1,657	2,563	7,668	10,037	23,996	28,470	60,633	66,625	(D)
	Value added by mfg....do....	513,279	2,468	4,121	5,892	20,251	27,220	71,611	71,386	154,662	155,666	(D)
	Cost of materials.....do....	326,619	2,222	2,872	4,208	13,012	13,070	40,031	60,633	100,198	90,369	(D)
	Value of shipments.....do....	839,899	4,690	6,994	10,101	33,264	40,291	111,642	132,019	254,860	246,035	(D)
	Capital expenditures.....do....	20,941	(1)	(1)	(1)	1,688	1,398	2,909	2,883	8,236	3,049	(D)
	Horsepower.....1,000 hp..	363	6	1	4	9	13	48	40	92	150	(D)
	Electricity used..mil. kwh..	290	7	2	4	8	12	35	33	77	112	(D)
3544	<u>Special dies and tools:</u>											
	Number of establishments....	4,377	1,753	922	813	609	193	64	15	4	4	...
	Total employees.....	77,418	4,302	6,629	11,505	18,604	12,795	9,874	4,309	2,833	6,565	...
	Total payroll.....\$1,000..	458,162	15,940	30,865	59,340	106,941	85,935	68,916	30,474	18,099	41,650	...
	Production workers:											
	Number.....	65,475	3,561	5,619	9,760	15,774	10,706	8,431	3,775	2,246	5,601	...
	Man-hours.....1,000..	146,912	7,386	12,331	20,901	34,697	24,522	20,003	8,911	5,074	13,085	...
	Wages.....\$1,000..	366,265	12,492	24,788	46,596	82,583	65,222	60,471	25,531	13,753	34,827	...
	Value added by mfg....do....	697,004	33,634	49,483	89,665	155,168	126,544	103,237	47,643	29,067	62,560	...
	Cost of materials.....do....	234,536	11,971	15,413	26,911	47,457	45,443	37,623	14,536	13,962	21,217	...
	Value of shipments.....do....	931,542	45,920	64,896	116,562	202,026	171,988	140,861	62,179	43,030	84,077	...
	Capital expenditures.....do....	66,600	3,958	3,854	6,710	9,352	31,193	5,858	1,623	1,417	2,631	...
	Horsepower.....1,000 hp..	292	2	11	34	68	79	41	18	6	33	...
	Electricity used..mil. kwh..	256	5	12	25	43	45	41	19	18	48	...
3545	<u>Metalworking machinery attachments:</u>											
	Number of establishments....	1,022	346	175	194	167	61	43	19	9	8	...
	Total employees.....	44,877	824	1,265	2,820	5,372	4,375	6,769	6,460	6,757	10,232	...
	Total payroll.....\$1,000..	212,665	2,764	5,649	13,360	27,276	22,860	31,734	31,323	29,712	47,984	...
	Production workers:											
	Number.....	34,467	674	1,021	2,280	4,240	3,413	5,171	4,882	4,853	7,930	...
	Man-hours.....1,000..	69,871	1,363	2,178	4,710	8,752	7,254	10,639	9,722	9,579	15,671	...
	Wages.....\$1,000..	146,854	2,142	4,232	9,726	18,534	15,547	21,559	21,255	20,055	33,800	...
	Value added by mfg....do....	351,607	6,110	9,818	21,375	43,798	36,682	51,656	51,252	52,371	78,542	...
	Cost of materials.....do....	125,096	3,225	3,886	7,527	15,423	14,733	17,181	15,711	22,645	24,762	...
	Value of shipments.....do....	476,704	9,334	13,705	28,903	59,222	51,415	68,839	66,964	75,017	103,304	...
	Capital expenditures.....do....	16,598	598	658	1,102	2,160	1,884	1,976	1,813	2,614	3,791	...
	Horsepower.....1,000 hp..	182	1	3	7	23	18	24	25	40	41	...
	Electricity used..mil. kwh..	230	4	3	7	14	18	34	39	48	63	...

See footnotes at end of table.

SIZE OF ESTABLISHMENTS

203-75

Table 1.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR MAJOR INDUSTRY GROUPS AND INDUSTRIES: 1954—Con.

Code	Industry group, industry, and item	Total, all estab- lish- ments	Establishments with an average of—									
			1-4 em- ployees	5-9 em- ployees	10-19 em- ployees	20-49 em- ployees	50-99 em- ployees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
3551	<u>Food-products machinery:</u>											
	Number of establishments....	672	195	130	86	118	74	43	16	6	4	...
	Total employees.....	33,205	449	916	1,234	3,762	5,174	6,226	5,689	4,446	5,306	...
	Total payroll.....\$1,000..	152,518	1,365	3,746	5,061	17,269	23,202	28,577	24,715	21,558	27,022	...
	Production workers:											
	Number.....	23,717	328	693	931	2,856	3,779	4,466	3,892	2,843	3,928	...
	Man-hours.....1,000..	49,009	653	1,387	1,828	5,726	7,726	9,283	7,785	6,111	8,508	...
	Wages.....\$1,000..	98,570	964	2,521	3,434	11,007	14,480	18,208	15,556	12,454	19,943	...
	Value added by mfg....do....	256,240	3,848	6,198	8,523	28,911	38,024	50,739	40,825	33,939	45,230	...
	Cost of materials.....do....	148,022	3,468	4,227	6,017	19,099	26,550	30,909	24,663	15,444	17,643	...
	Value of shipments.....do....	404,261	7,317	10,424	14,541	48,010	64,574	81,648	65,488	49,383	62,874	...
	Capital expenditures..do....	7,571	(¹)	(¹)	(¹)	768	1,418	1,257	1,313	1,406	(¹)	...
	Horsepower.....1,000 hp..	123	(²)	3	3	15	17	22	28	14	21	...
	Electricity used..mil. kwh..	113	2	3	4	11	13	18	21	15	26	...
3552	<u>Textile machinery:</u>											
	Number of establishments....	535	146	77	102	105	50	32	12	4	5	2
	Total employees.....	36,595	387	567	1,478	3,328	3,287	5,101	4,193	2,830	15,421	(D)
	Total payroll.....\$1,000..	145,253	1,071	1,838	5,581	12,729	12,729	20,194	16,251	14,038	60,820	(D)
	Production workers:											
	Number.....	28,093	313	440	1,187	2,647	2,618	4,017	3,372	1,932	11,565	(D)
	Man-hours.....1,000..	55,733	594	848	2,557	5,390	5,447	8,139	6,931	3,898	21,927	(D)
	Wages.....\$1,000..	98,668	793	1,284	4,056	8,460	8,600	13,444	11,884	8,899	41,246	(D)
	Value added by mfg....do....	217,560	2,389	2,931	8,465	19,941	20,127	30,389	25,267	21,012	87,035	(D)
	Cost of materials.....do....	119,228	1,479	1,751	4,712	12,932	11,510	23,089	12,339	9,054	42,359	(D)
	Value of shipments.....do....	336,785	3,869	4,682	13,176	32,872	31,638	53,478	37,606	30,066	129,394	(D)
	Capital expenditures..do....	8,528	(¹)	(¹)	(¹)	584	755	1,214	931	1,195	3,251	(D)
	Horsepower.....1,000 hp..	163	1	1	5	12	14	22	28	11	69	(D)
	Electricity used..mil. kwh..	127	2	1	3	8	11	15	18	9	60	(D)
3553	<u>Woodworking machinery:</u>											
	Number of establishments....	249	70	49	34	52	18	19	3	3	1	...
	Total employees.....	11,973	199	349	483	1,612	1,137	3,184	1,160	3,845	(D)	...
	Total payroll.....\$1,000..	53,821	532	1,251	2,054	7,223	4,877	14,155	5,462	18,265	(D)	...
	Production workers:											
	Number.....	8,839	152	263	368	1,208	872	2,295	869	2,808	(D)	...
	Man-hours.....1,000..	17,771	285	526	696	2,492	1,761	4,516	1,939	5,552	(D)	...
	Wages.....\$1,000..	35,224	402	898	1,367	4,673	3,066	8,949	3,500	12,365	(D)	...
	Value added by mfg....do....	101,721	1,292	2,513	3,013	11,433	7,475	29,565	12,984	33,444	(D)	...
	Cost of materials.....do....	65,438	1,427	1,865	2,477	6,276	5,947	18,413	5,024	24,006	(D)	...
	Value of shipments.....do....	167,160	2,719	4,378	5,490	17,710	13,423	47,979	18,008	57,450	(D)	...
	Capital expenditures..do....	4,329	(¹)	(¹)	(¹)	(¹)	(¹)	1,197	713	1,469	(D)	...
	Horsepower.....1,000 hp..	47	(²)	1	2	10	7	15	2	10	(D)	...
	Electricity used..mil. kwh..	53	(³)	2	2	5	3	15	2	24	(D)	...
3554	<u>Paper-industries machinery:</u>											
	Number of establishments....	169	33	19	19	35	28	15	17	2	1	...
	Total employees.....	15,003	97	128	289	1,062	1,939	2,300	5,931	3,254	(D)	...
	Total payroll.....\$1,000..	73,713	319	481	1,417	4,621	9,157	11,250	29,431	17,034	(D)	...
	Production workers:											
	Number.....	11,516	74	100	211	849	1,479	1,664	4,317	2,819	(D)	...
	Man-hours.....1,000..	23,745	153	207	443	1,731	3,129	3,520	8,895	5,664	(D)	...
	Wages.....\$1,000..	50,057	227	375	889	3,189	6,231	7,216	18,598	13,329	(D)	...
	Value added by mfg....do....	112,565	689	847	2,206	7,032	14,177	16,538	48,799	22,275	(D)	...
	Cost of materials.....do....	84,071	432	628	1,352	4,449	8,692	9,993	30,829	27,692	(D)	...
	Value of shipments.....do....	196,635	1,122	1,476	3,559	11,482	22,869	26,531	79,627	49,968	(D)	...
	Capital expenditures..do....	4,916	(¹)	(¹)	(¹)	(¹)	949	(¹)	1,433	1,680	(D)	...
	Horsepower.....1,000 hp..	91	13	1	1	4	17	10	28	17	(D)	...
	Electricity used..mil. kwh..	67	7	1	1	2	7	9	22	18	(D)	...
3555	<u>Printing-trades machinery:</u>											
	Number of establishments....	358	123	60	66	51	23	17	8	5	5	...
	Total employees.....	21,960	298	442	950	1,580	1,711	2,817	2,713	3,957	7,489	...
	Total payroll.....\$1,000..	110,679	977	1,819	4,122	7,813	8,260	14,112	13,401	20,550	39,622	...
	Production workers:											
	Number.....	16,416	221	332	681	1,187	1,258	2,211	2,133	2,543	5,846	...
	Man-hours.....1,000..	33,027	424	663	1,349	2,380	2,642	4,668	4,324	4,924	11,650	...
	Wages.....\$1,000..	74,515	665	1,229	2,563	4,894	5,346	10,007	9,417	11,644	28,747	...
	Value added by mfg....do....	173,805	2,217	3,472	6,548	12,931	11,799	20,216	18,738	30,562	67,319	...
	Cost of materials.....do....	74,913	1,627	2,650	4,952	5,575	4,909	9,190	11,833	13,910	20,264	...
	Value of shipments.....do....	248,719	3,845	6,123	11,502	18,507	16,709	29,407	30,571	44,472	87,583	...
	Capital expenditures..do....	6,634	(¹)	(¹)	(¹)	(¹)	(¹)	1,016	839	1,483	1,851	...
	Horsepower.....1,000 hp..	73	(²)	(²)	3	4	6	12	11	10	27	...
	Electricity used..mil. kwh..	72	1	2	4	4	5	9	10	15	22	...

See footnotes at end of table.

Table 1.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR MAJOR INDUSTRY GROUPS AND INDUSTRIES: 1954—Con.

Code	Industry group, industry, and item	Total, all estab- lish- ments	Establishments with an average of—									
			1-4 em- ployees	5-9 em- ployees	10-19 em- ployees	20-49 em- ployees	50-99 em- ployees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
3559	<u>Special-industry machinery, nec:</u>											
	Number of establishments....	917	289	156	142	148	82	56	28	12	4	...
	Total employees.....	47,007	686	1,126	2,078	4,752	5,835	8,152	9,324	8,255	6,797	...
	Total payroll.....\$1,000..	218,553	2,159	4,786	9,151	22,449	28,513	37,062	43,131	40,470	30,831	...
	Production workers:											
	Number.....	33,997	543	884	1,632	3,661	4,422	5,950	6,442	5,840	4,621	...
	Man-hours.....1,000..	69,310	1,075	1,883	3,316	7,545	9,271	11,949	13,169	11,916	9,185	...
	Wages.....\$1,000..	141,160	1,614	3,559	6,466	14,585	18,645	23,884	26,272	24,958	21,175	...
	Value added by mfg....do....	352,943	4,848	8,920	15,261	35,159	44,827	62,489	71,662	62,603	47,172	...
	Cost of materials.....do....	227,573	4,373	6,100	9,300	28,248	28,748	41,869	48,595	39,965	20,371	...
	Value of shipments.....do....	580,515	9,222	15,020	24,561	63,407	73,575	104,359	120,257	102,568	67,543	...
	Capital expenditures..do....	13,742	(1)	(1)	1,008	1,329	1,513	2,318	2,912	2,771	1,282	...
	Horsepower.....1,000 hp..	192	18	3	7	19	25	34	35	26	25	...
	Electricity used..mil. kwh..	186	21	4	8	14	16	26	40	29	28	...
3561	<u>Pumps and compressors:</u>											
	Number of establishments....	496	122	71	66	81	39	56	32	19	8	2
	Total employees.....	60,324	297	508	966	2,625	2,763	8,853	11,276	13,550	19,484	(D)
	Total payroll.....\$1,000..	272,632	945	2,185	4,035	11,049	12,769	40,513	51,373	61,559	88,202	(D)
	Production workers:											
	Number.....	41,269	217	367	703	1,925	1,952	6,101	7,569	9,464	12,969	(D)
	Man-hours.....1,000..	82,859	419	734	1,344	3,780	4,003	12,560	15,261	19,096	25,660	(D)
	Wages.....\$1,000..	168,613	600	1,249	2,397	6,714	7,479	24,496	30,933	39,807	54,936	(D)
	Value added by mfg....do....	498,011	1,924	4,380	7,764	19,484	24,802	30,373	91,284	102,228	165,768	(D)
	Cost of materials.....do....	392,862	2,199	4,892	7,470	19,910	19,110	62,076	77,998	72,110	127,093	(D)
	Value of shipments.....do....	890,873	4,124	9,273	15,235	39,395	43,913	142,449	169,282	174,338	292,863	(D)
	Capital expenditures..do....	18,015	(1)	(1)	(1)	713	722	2,673	3,563	5,374	4,378	(D)
	Horsepower.....1,000 hp..	299	2	1	3	11	12	43	46	92	89	(D)
	Electricity used..mil. kwh..	287	11	2	3	7	8	29	51	69	107	(D)
3562	<u>Elevators and escalators:</u>											
	Number of establishments....	131	21	20	24	38	15	7	3	...	3	...
	Total employees.....	10,257	67	146	368	1,255	1,037	1,106	6,275	...	(D)	...
	Total payroll.....\$1,000..	49,518	234	593	1,613	5,920	4,713	5,288	31,155	...	(D)	...
	Production workers:											
	Number.....	7,017	50	106	266	861	709	660	4,363	...	(D)	...
	Man-hours.....1,000..	14,164	107	207	554	1,678	1,422	1,331	8,862	...	(D)	...
	Wages.....\$1,000..	31,766	180	391	1,109	3,380	2,814	2,976	20,912	...	(D)	...
	Value added by mfg....do....	102,106	495	1,178	2,982	10,408	8,195	9,453	69,392	...	(D)	...
	Cost of materials.....do....	58,918	460	832	1,905	6,395	4,884	5,653	38,787	...	(D)	...
	Value of shipments.....do....	161,024	956	2,011	4,887	16,803	13,079	15,106	108,180	...	(D)	...
	Capital expenditures..do....	1,429	(1)	(1)	(1)	(1)	(1)	(1)	841	...	(D)	...
	Horsepower.....1,000 hp..	30	1	1	1	4	2	1	20	...	(D)	...
	Electricity used..mil. kwh..	38	2	1	1	3	2	2	27	...	(D)	...
3563	<u>Conveyors:</u>											
	Number of establishments....	389	75	52	70	85	41	34	17	12	2	1
	Total employees.....	32,370	198	388	982	2,763	2,848	5,060	6,639	8,550	4,938	(D)
	Total payroll.....\$1,000..	161,414	674	1,582	4,318	12,635	14,128	26,535	33,593	41,699	26,247	(D)
	Production workers:											
	Number.....	22,265	147	278	715	1,993	2,067	3,321	4,482	6,061	3,197	(D)
	Man-hours.....1,000..	46,039	301	574	1,397	4,093	4,108	6,878	9,183	12,697	6,806	(D)
	Wages.....\$1,000..	95,786	477	1,077	2,795	7,767	8,445	15,095	19,554	24,467	14,107	(D)
	Value added by mfg....do....	286,919	1,729	2,717	7,130	19,988	24,758	48,715	61,984	78,005	41,891	(D)
	Cost of materials.....do....	192,304	1,683	2,618	6,882	17,948	19,614	36,694	40,058	47,804	19,001	(D)
	Value of shipments.....do....	479,224	3,412	5,335	14,013	37,937	44,372	85,409	102,043	125,809	60,892	(D)
	Capital expenditures..do....	10,519	(1)	(1)	(1)	821	717	1,530	2,044	2,222	2,819	(D)
	Horsepower.....1,000 hp..	147	(2)	1	3	10	11	22	24	49	27	(D)
	Electricity used..mil. kwh..	135	1	1	3	6	9	16	27	48	24	(D)
3564	<u>Blowers and fans:</u>											
	Number of establishments....	214	43	29	36	39	31	23	3	7	3	...
	Total employees.....	18,125	109	207	536	1,256	2,157	3,947	1,147	4,221	4,541	...
	Total payroll.....\$1,000..	80,850	308	782	2,385	5,305	9,107	16,409	5,300	18,664	22,586	...
	Production workers:											
	Number.....	13,724	82	158	417	964	1,701	2,938	791	3,380	3,289	...
	Man-hours.....1,000..	27,349	153	333	806	1,828	3,377	5,855	1,634	6,524	6,836	...
	Wages.....\$1,000..	54,033	215	575	1,541	3,499	6,077	10,549	3,188	13,276	15,108	...
	Value added by mfg....do....	151,272	709	1,675	3,676	9,547	15,890	30,361	10,141	42,068	37,203	...
	Cost of materials.....do....	110,552	623	1,375	2,081	6,211	17,243	25,685	5,231	33,934	18,166	...
	Value of shipments.....do....	261,825	1,332	3,051	5,758	15,758	33,133	56,046	15,372	76,002	55,370	...
	Capital expenditures..do....	5,873	(1)	(1)	(1)	(1)	680	868	755	1,832	1,169	...
	Horsepower.....1,000 hp..	67	(2)	1	1	5	10	11	2	16	21	...
	Electricity used..mil. kwh..	63	(3)	1	1	3	6	13	3	15	21	...

See footnotes at end of table.

SIZE OF ESTABLISHMENTS

203-77

Table 1.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR MAJOR INDUSTRY GROUPS AND INDUSTRIES: 1954—Con.

Code	Industry group, industry, and item	Total, all estab- lish- ments	Establishments with an average of—									
			1-4 em- ployees	5-9 em- ployees	10-19 em- ployees	20-49 em- ployees	50-99 em- ployees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
3565	<u>Industrial trucks and tractors:</u>											
	Number of establishments....	245	72	38	39	50	16	19	3	6	1	1
	Total employees.....	15,797	173	274	580	1,529	1,163	3,169	1,093	7,813	(D)	(D)
	Total payroll.....\$1,000..	71,824	552	978	2,266	6,297	5,292	14,414	4,764	37,259	(D)	(D)
	Production workers:											
	Number.....	11,061	129	201	460	1,194	860	2,383	792	5,038	(D)	(D)
	Man-hours.....1,000..	22,123	255	420	890	2,425	1,756	4,922	1,521	9,930	(D)	(D)
	Wages.....\$1,000..	44,813	371	660	1,470	4,229	3,269	9,601	3,077	22,133	(D)	(D)
	Value added by mfg....do....	123,044	1,157	2,058	4,064	10,084	8,928	24,536	7,242	64,973	(D)	(D)
	Cost of materials.....do....	122,065	1,567	1,703	3,978	8,581	10,456	22,028	6,722	67,027	(D)	(D)
	Value of shipments.....do....	245,110	2,724	3,761	8,043	18,666	19,384	46,565	13,964	132,000	(D)	(D)
	Capital expenditures..do....	7,088	(1)	(1)	(1)	704	(1)	2,092	(1)	3,682	(D)	(D)
	Horsepower.....1,000 hp..	65	5	1	2	9	4	13	4	27	(D)	(D)
	Electricity used..mil. kwh..	70	9	1	2	5	4	12	4	33	(D)	(D)
3566	<u>Power-transmission equipment:</u>											
	Number of establishments....	471	79	55	74	111	51	46	33	15	6	1
	Total employees.....	49,580	217	406	1,054	3,445	3,729	7,249	11,738	9,399	12,339	(D)
	Total payroll.....\$1,000..	231,636	762	1,708	4,635	15,910	17,324	34,926	55,539	43,575	57,254	(D)
	Production workers:											
	Number.....	37,903	162	296	826	2,695	2,875	5,732	8,835	7,259	9,219	(D)
	Man-hours.....1,000..	76,209	320	624	1,650	5,569	5,906	11,891	17,846	14,534	17,866	(D)
	Wages.....\$1,000..	160,037	511	1,150	3,155	10,570	11,543	24,709	36,720	31,786	39,890	(D)
	Value added by mfg....do....	393,984	1,771	3,158	8,125	24,254	31,540	59,139	100,800	77,432	87,762	(D)
	Cost of materials.....do....	209,648	1,189	2,233	3,721	14,136	16,545	26,498	57,332	43,132	44,859	(D)
	Value of shipments.....do....	603,633	2,961	5,392	11,846	38,390	48,461	85,638	158,132	120,564	132,246	(D)
	Capital expenditures..do....	14,964	(1)	(1)	(1)	1,309	1,524	2,626	3,369	2,463	2,714	(D)
	Horsepower.....1,000 hp..	273	12	1	5	16	22	49	64	50	54	(D)
	Electricity used..mil. kwh..	322	14	2	6	10	18	43	67	65	97	(D)
3567	<u>Industrial furnaces and ovens:</u>											
	Number of establishments....	167	49	27	28	24	20	10	6	3	...	...
	Total employees.....	8,415	125	194	414	716	1,498	1,582	2,156	1,729	...	...
	Total payroll.....\$1,000..	42,351	397	789	1,911	3,472	7,624	8,464	11,110	8,581	...	...
	Production workers:											
	Number.....	5,050	93	137	272	474	985	891	1,333	862	...	...
	Man-hours.....1,000..	10,403	173	264	589	960	2,011	1,960	2,700	1,743	...	...
	Wages.....\$1,000..	20,975	271	465	1,064	1,793	3,942	3,969	5,693	3,777	...	...
	Value added by mfg....do....	81,399	1,328	1,116	3,246	5,511	15,471	14,888	16,839	22,997	...	...
	Cost of materials.....do....	78,732	1,636	1,335	2,444	5,208	14,816	15,061	14,109	24,121	...	...
	Value of shipments.....do....	160,132	2,965	2,451	5,690	10,720	30,288	29,950	30,948	47,119	...	...
	Capital expenditures..do....	1,902	(1)	(1)	(1)	(1)	817	(1)	(1)	(1)	...	...
	Horsepower.....1,000 hp..	23	(2)	(2)	1	2	3	4	6	7	...	...
	Electricity used..mil. kwh..	25	1	1	1	2	5	3	6	6	...	...
3568	<u>Mechanical stokers:</u>											
	Number of establishments....	25	6	6	5	3	3	...	2	...	...	...
	Total employees.....	1,118	59	(D)	62	82	914	...	(D)	...	...	...
	Total payroll.....\$1,000..	5,138	243	(D)	296	359	4,239	...	(D)	...	...	...
	Production workers:											
	Number.....	766	38	(D)	39	64	624	...	(D)	...	...	...
	Man-hours.....1,000..	1,453	84	(D)	86	56	1,226	...	(D)	...	...	...
	Wages.....\$1,000..	2,820	133	(D)	169	114	2,402	...	(D)	...	...	...
	Value added by mfg....do....	8,976	258	(D)	356	585	7,775	...	(D)	...	...	...
	Cost of materials.....do....	4,797	355	(D)	277	353	3,810	...	(D)	...	...	...
	Value of shipments.....do....	13,774	615	(D)	634	938	11,585	...	(D)	...	...	...
	Capital expenditures..do....	(1)	(1)	(D)	(1)	(1)	187	...	(D)	...	...	...
	Horsepower.....1,000 hp..	5	(4)	(D)	(2)	(2)	5	...	(D)	...	...	...
	Electricity used..mil. kwh..	5	(3)	(D)	(3)	(3)	2	...	(D)	...	...	...
3569	<u>General industrial machinery, nec:</u>											
	Number of establishments....	466	137	64	72	84	47	40	14	5	3	...
	Total employees.....	27,927	334	450	1,031	2,745	3,268	5,937	5,163	3,376	5,620	...
	Total payroll.....\$1,000..	131,575	1,064	1,890	4,354	11,886	15,714	27,417	23,421	15,847	29,980	...
	Production workers:											
	Number.....	17,837	249	339	738	1,974	2,237	3,999	3,248	2,396	2,653	...
	Man-hours.....1,000..	36,513	476	728	1,488	3,896	4,627	8,301	6,546	4,943	5,505	...
	Wages.....\$1,000..	73,929	773	1,324	2,791	7,081	9,164	15,856	13,331	10,678	12,928	...
	Value added by mfg....do....	213,340	2,539	3,569	7,884	22,575	26,101	47,765	38,937	32,891	31,075	...
	Cost of materials.....do....	157,159	2,372	2,963	5,550	17,136	17,579	31,783	31,487	23,411	24,875	...
	Value of shipments.....do....	370,499	4,912	6,533	13,434	39,712	43,681	79,548	70,425	56,302	55,950	...
	Capital expenditures..do....	21,883	(1)	(1)	(1)	862	668	1,297	1,269	672	16,412	...
	Horsepower.....1,000 hp..	126	9	1	2	14	11	18	20	34	17	...
	Electricity used..mil. kwh..	171	7	1	3	8	9	19	20	18	86	...

See footnotes at end of table.

Table 1.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR MAJOR INDUSTRY GROUPS AND INDUSTRIES: 1954—Con.

Code	Industry group, industry, and item	Total, all estab- lish- ments	Establishments with an average of—									
			1-4 em- ployees	5-9 em- ployees	10-19 em- ployees	20-49 em- ployees	50-99 em- ployees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
3571	<u>Computing and related machines:</u>											
	Number of establishments....	84	18	7	8	11	2	10	9	7	6	6
	Total employees.....	56,692	40	55	111	534	(D)	1,366	3,107	5,300	8,574	37,603
	Total payroll.....\$1,000..	275,809	114	258	440	<u>2,352</u>	(D)	6,496	13,781	22,552	36,674	193,140
	Production workers:											
	Number.....	45,014	32	39	84	<u>408</u>	(D)	954	2,402	4,132	6,620	30,341
	Man-hours.....1,000..	88,484	59	72	152	<u>742</u>	(D)	1,862	4,673	8,514	12,383	60,023
	Wages.....\$1,000..	200,953	77	129	286	<u>1,303</u>	(D)	3,896	9,217	15,722	25,975	144,346
	Value added by mfg....do....	412,048	322	301	685	<u>3,436</u>	(D)	7,629	28,425	41,439	60,653	269,155
	Cost of materials.....do....	202,217	247	222	221	<u>2,320</u>	(D)	5,199	8,193	13,380	17,207	155,224
	Value of shipments.....do....	614,265	569	523	907	<u>5,758</u>	(D)	12,828	36,619	54,820	77,860	424,379
	Capital expenditures..do....	31,571	(1)	(1)	(1)	<u>(1)</u>	(D)	1,945	1,068	779	1,909	25,576
	Horsepower.....1,000 hp..	73	1	(2)	(2)	<u>(2)</u>	(D)	1	7	4	13	47
	Electricity used..mil. kwh..	176	2	(3)	(3)	<u>1</u>	(D)	3	4	16	14	136
3572	<u>Typewriters:</u>											
	Number of establishments....	18	2	...	2	3	2	1	2	...	3	3
	Total employees.....	18,435	36	...	(D)	72	<u>378</u>	(D)	<u>5,642</u>	...	(D)	12,305
	Total payroll.....\$1,000..	67,399	<u>110</u>	...	(D)	340	<u>1,312</u>	(D)	<u>21,558</u>	...	(D)	44,077
	Production workers:											
	Number.....	16,699	28	...	(D)	59	<u>338</u>	(D)	<u>5,346</u>	...	(D)	10,925
	Man-hours.....1,000..	32,589	60	...	(D)	142	<u>662</u>	(D)	<u>10,484</u>	...	(D)	21,236
	Wages.....\$1,000..	60,075	84	...	(D)	274	<u>1,144</u>	(D)	<u>20,203</u>	...	(D)	38,367
	Value added by mfg....do....	131,306	<u>193</u>	...	(D)	899	<u>2,829</u>	(D)	<u>42,050</u>	...	(D)	85,335
	Cost of materials.....do....	42,133	59	...	(D)	358	<u>621</u>	(D)	<u>10,603</u>	...	(D)	30,490
	Value of shipments.....do....	173,439	252	...	(D)	1,257	<u>3,450</u>	(D)	<u>52,653</u>	...	(D)	115,825
	Capital expenditures..do....	2,789	(1)	...	(D)	(1)	<u>(1)</u>	(D)	<u>796</u>	...	(D)	1,852
	Horsepower.....1,000 hp..	25	(2)	...	(D)	...	<u>2</u>	(D)	<u>6</u>	...	(D)	17
	Electricity used..mil. kwh..	54	(3)	...	(D)	(3)	<u>1</u>	(D)	<u>16</u>	...	(D)	37
3576	<u>Scales and balances:</u>											
	Number of establishments....	78	20	16	7	13	9	8	1	4	...	...
	Total employees.....	5,381	53	107	99	382	595	<u>1,560</u>	(D)	2,583	...	...
	Total payroll.....\$1,000..	21,276	181	366	470	1,550	2,427	<u>7,182</u>	(D)	9,098	...	...
	Production workers:											
	Number.....	4,074	35	81	67	308	486	<u>1,089</u>	(D)	2,006	...	...
	Man-hours.....1,000..	7,636	69	156	140	619	971	<u>2,220</u>	(D)	3,460	...	...
	Wages.....\$1,000..	14,163	112	284	277	1,077	1,766	<u>4,151</u>	(D)	6,494	...	...
	Value added by mfg....do....	44,047	424	744	950	2,799	3,456	<u>14,652</u>	(D)	21,020	...	...
	Cost of materials.....do....	20,135	260	443	398	1,535	1,886	<u>6,487</u>	(D)	9,124	...	...
	Value of shipments.....do....	64,182	684	1,188	1,349	4,334	5,342	<u>21,139</u>	(D)	30,144	...	...
	Capital expenditures..do....	1,103	(1)	(1)	(1)	(1)	(1)	<u>(1)</u>	(D)	(1)	...	...
	Horsepower.....1,000 hp..	13	...	(2)	1	1	1	<u>2</u>	(D)	7	...	...
	Electricity used..mil. kwh..	15	(3)	(3)	(3)	1	1	<u>4</u>	(D)	9	...	...
3579	<u>Office and store machines, nec:</u>											
	Number of establishments....	229	68	39	28	39	21	14	9	7	3	1
	Total employees.....	20,785	172	273	389	1,143	1,571	2,287	3,361	4,976	<u>6,609</u>	(D)
	Total payroll.....\$1,000..	91,159	558	992	1,479	4,402	6,807	9,023	13,166	23,088	<u>31,641</u>	(D)
	Production workers:											
	Number.....	15,843	135	217	305	898	1,171	1,809	2,747	3,834	<u>4,723</u>	(D)
	Man-hours.....1,000..	31,871	253	434	587	1,791	2,321	3,853	5,450	7,867	<u>9,311</u>	(D)
	Wages.....\$1,000..	61,639	366	679	947	3,013	3,813	6,914	10,077	15,545	<u>20,280</u>	(D)
	Value added by mfg....do....	186,479	1,330	1,900	2,689	7,823	12,393	22,086	27,413	44,599	66,243	(D)
	Cost of materials.....do....	89,957	922	1,480	1,484	5,094	7,595	12,605	14,389	17,419	<u>28,970</u>	(D)
	Value of shipments.....do....	276,437	2,252	3,381	4,174	12,917	19,989	34,691	41,802	62,015	<u>95,213</u>	(D)
	Capital expenditures..do....	6,603	(1)	(1)	(1)	(1)	(1)	(1)	709	1,365	<u>3,446</u>	(D)
	Horsepower.....1,000 hp..	33	1	(2)	1	1	1	3	2	12	<u>11</u>	(D)
	Electricity used..mil. kwh..	62	1	(3)	2	2	3	4	8	17	<u>25</u>	(D)
3581	<u>Domestic laundry equipment:</u>											
	Number of establishments....	56	9	5	3	9	6	4	7	7	4	2
	Total employees.....	22,105	16	37	31	234	482	614	2,464	5,233	<u>12,991</u>	(D)
	Total payroll.....\$1,000..	98,556	68	124	134	935	1,768	2,290	11,025	20,430	<u>61,780</u>	(D)
	Production workers:											
	Number.....	16,710	11	28	23	179	393	497	1,887	4,049	<u>9,641</u>	(D)
	Man-hours.....1,000..	32,497	24	49	49	370	732	996	3,877	7,576	<u>18,821</u>	(D)
	Wages.....\$1,000..	68,066	36	85	100	634	1,206	1,713	7,661	14,331	<u>42,298</u>	(D)
	Value added by mfg....do....	207,395	144	173	188	1,780	2,781	6,915	26,989	34,473	<u>133,950</u>	(D)
	Cost of materials.....do....	320,139	234	352	351	1,610	4,469	5,972	36,034	66,090	<u>205,023</u>	(D)
	Value of shipments.....do....	527,535	378	526	539	3,391	7,250	12,887	63,023	100,564	<u>338,974</u>	(D)
	Capital expenditures..do....	18,569	(1)	(1)	(1)	(1)	(1)	(1)	596	1,006	<u>16,727</u>	(D)
	Horsepower.....1,000 hp..	67	2	(2)	(2)	1	2	3	7	12	<u>40</u>	(D)
	Electricity used..mil. kwh..	149	5	(3)	(3)	1	3	4	10	20	<u>106</u>	(D)

See footnotes at end of table.

SIZE OF ESTABLISHMENTS

203-79

Table 1.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR MAJOR INDUSTRY GROUPS AND INDUSTRIES: 1954—Con.

Code	Industry group, industry, and item	Total, all estab- lish- ments	Establishments with an average of—									2,500 employees and over
			1-4 em- ployees	5-9 em- ployees	10-19 em- ployees	20-49 em- ployees	50-99 em- ployees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	
3582	<u>Laundry and dry-cleaning machinery:</u>											
	Number of establishments....	104	33	12	13	24	13	2	3	4	...	...
	Total employees.....	6,543	88	92	191	840	<u>1,287</u>	(D)	1,412	2,632	...	...
	Total payroll.....\$1,000..	28,630	283	350	877	3,854	<u>5,405</u>	(D)	6,533	11,326	...	...
	Production workers:											
	Number.....	4,659	66	67	134	617	986	(D)	835	1,952	...	...
	Man-hours.....1,000..	9,509	128	138	261	1,232	<u>1,967</u>	(D)	1,729	4,051	...	...
	Wages.....\$1,000..	18,243	202	210	510	2,376	<u>3,558</u>	(D)	3,453	7,932	...	...
	Value added by mfg....do....	54,218	681	762	1,783	7,845	<u>9,927</u>	(D)	12,580	20,637	...	...
	Cost of materials.....do....	33,847	738	804	1,158	5,680	<u>6,613</u>	(D)	6,697	12,154	...	...
	Value of shipments.....do....	88,065	1,420	1,567	2,942	13,525	<u>16,541</u>	(D)	19,277	32,792	...	...
	Capital expenditures.....do....	1,062	(1)	(1)	(1)	(1)	(1)	(D)	(1)	521	...	...
	Horsepower.....1,000 hp..	30	1	(2)	1	3	(3)	(D)	2	20	...	...
	Electricity used..mil. kwh..	21	2	(3)	1	2	<u>4</u>	(D)	4	8	...	...
3583	<u>Sewing machines:</u>											
	Number of establishments....	82	24	22	8	13	3	4	3	3	1	1
	Total employees.....	12,414	61	150	120	600	(D)	667	866	<u>9,946</u>	(D)	(D)
	Total payroll.....\$1,000..	56,552	177	606	503	<u>2,471</u>	(D)	2,806	3,225	<u>46,761</u>	(D)	(D)
	Production workers:											
	Number.....	9,443	46	120	90	495	(D)	577	652	7,459	(D)	(D)
	Man-hours.....1,000..	19,142	88	244	180	<u>1,030</u>	(D)	1,151	1,249	<u>15,196</u>	(D)	(D)
	Wages.....\$1,000..	40,697	117	463	317	<u>1,817</u>	(D)	2,263	2,000	<u>33,716</u>	(D)	(D)
	Value added by mfg....do....	76,602	293	1,043	738	<u>5,691</u>	(D)	4,628	8,301	55,905	(D)	(D)
	Cost of materials.....do....	35,427	311	465	581	<u>1,653</u>	(D)	1,199	7,446	<u>23,769</u>	(D)	(D)
	Value of shipments.....do....	112,029	605	1,509	1,320	<u>7,345</u>	(D)	5,827	15,748	<u>79,672</u>	(D)	(D)
	Capital expenditures.....do....	3,045	(1)	(1)	(1)	(1)	(D)	661	517	<u>1,780</u>	(D)	(D)
	Horsepower.....1,000 hp..	43	(2)	(2)	(2)	(1)	(D)	2	4	<u>36</u>	(D)	(D)
	Electricity used..mil. kwh..	47	(3)	(3)	(3)	<u>1</u>	(D)	2	8	<u>36</u>	(D)	(D)
3584	<u>Vacuum cleaners:</u>											
	Number of establishments....	39	7	6	5	3	8	1	4	2	3	...
	Total employees.....	8,383	14	40	63	94	<u>809</u>	(D)	<u>2,754</u>	(D)	4,607	...
	Total payroll.....\$1,000..	38,867	43	168	240	470	<u>3,485</u>	(D)	<u>11,848</u>	(D)	22,611	...
	Production workers:											
	Number.....	6,408	11	28	44	58	<u>584</u>	(D)	<u>2,161</u>	(D)	3,520	...
	Man-hours.....1,000..	12,717	20	60	74	117	<u>1,064</u>	(D)	<u>4,190</u>	(D)	7,189	...
	Wages.....\$1,000..	26,903	35	114	126	217	<u>1,870</u>	(D)	<u>8,475</u>	(D)	16,064	...
	Value added by mfg....do....	91,850	101	504	523	1,170	<u>7,821</u>	(D)	<u>25,340</u>	(D)	56,387	...
	Cost of materials.....do....	66,057	175	211	795	1,047	<u>10,169</u>	(D)	<u>27,930</u>	(D)	25,727	...
	Value of shipments.....do....	157,907	276	716	1,319	2,218	<u>17,991</u>	(D)	<u>53,270</u>	(D)	82,115	...
	Capital expenditures.....do....	2,094	(1)	(1)	(1)	(1)	(1)	(D)	<u>588</u>	(D)	1,094	...
	Horsepower.....1,000 hp..	26	(2)	(2)	(2)	(2)	(1)	(D)	<u>10</u>	(D)	15	...
	Electricity used..mil. kwh..	37	(3)	(3)	1	(3)	<u>2</u>	(D)	<u>12</u>	(D)	22	...
3585	<u>Refrigeration machinery:</u>											
	Number of establishments....	586	131	72	86	94	59	65	31	22	16	10
	Total employees.....	128,283	345	528	1,262	3,095	4,306	10,802	11,015	14,989	26,028	55,910
	Total payroll.....\$1,000..	567,118	1,227	2,098	4,600	12,565	17,945	44,023	44,336	62,898	113,625	263,798
	Production workers:											
	Number.....	98,921	284	430	1,006	2,517	3,061	8,293	8,628	11,479	20,692	42,529
	Man-hours.....1,000..	194,527	581	839	1,994	4,994	6,160	16,379	17,110	22,541	40,823	83,104
	Wages.....\$1,000..	396,982	918	1,571	3,333	8,506	10,705	29,302	30,261	43,110	84,408	184,865
	Value added by mfg....do....	1,006,193	3,017	3,437	8,068	22,729	30,064	84,628	71,513	130,515	181,866	470,353
	Cost of materials.....do....	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)
	Value of shipments.....do....	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)
	Capital expenditures.....do....	107,708	270	193	411	918	2,547	8,943	3,146	48,470	20,771	22,037
	Horsepower.....1,000 hp..	598	4	1	2	7	12	22	50	118	104	278
	Electricity used..mil. kwh..	911	10	2	5	8	16	41	57	99	193	480
3586	<u>Measuring and dispensing pumps:</u>											
	Number of establishments....	32	5	2	5	6	2	3	2	5	2	...
	Total employees.....	8,367	27	(D)	57	354	(D)	<u>1,235</u>	(D)	<u>6,691</u>	(D)	...
	Total payroll.....\$1,000..	38,531	<u>124</u>	(D)	239	<u>1,264</u>	(D)	<u>5,384</u>	(D)	<u>31,518</u>	(D)	...
	Production workers:											
	Number.....	5,893	19	(D)	43	289	(D)	822	(D)	<u>4,717</u>	(D)	...
	Man-hours.....1,000..	11,790	<u>40</u>	(D)	84	<u>596</u>	(D)	<u>1,716</u>	(D)	<u>9,352</u>	(D)	...
	Wages.....\$1,000..	23,658	<u>63</u>	(D)	165	<u>861</u>	(D)	<u>3,217</u>	(D)	<u>19,350</u>	(D)	...
	Value added by mfg....do....	63,160	220	(D)	496	<u>2,135</u>	(D)	<u>10,659</u>	(D)	<u>49,648</u>	(D)	...
	Cost of materials.....do....	53,383	<u>312</u>	(D)	356	<u>2,616</u>	(D)	<u>10,413</u>	(D)	<u>39,683</u>	(D)	...
	Value of shipments.....do....	116,543	<u>534</u>	(D)	852	<u>4,752</u>	(D)	<u>21,072</u>	(D)	<u>89,331</u>	(D)	...
	Capital expenditures.....do....	2,002	(1)	(D)	(1)	<u>101</u>	(D)	(1)	(D)	<u>1,582</u>	(D)	...
	Horsepower.....1,000 hp..	104	(2)	(D)	(2)	<u>1</u>	(D)	<u>4</u>	(D)	<u>90</u>	(D)	...
	Electricity used..mil. kwh..	36	(3)	(D)	(3)	<u>1</u>	(D)	<u>4</u>	(D)	<u>30</u>	(D)	...

See footnotes at end of table.

MANUFACTURES—SUMMARY STATISTICS

Table 1.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR MAJOR INDUSTRY GROUPS AND INDUSTRIES: 1954—Con.

Code	Industry group, industry, and item	Total, all estab- lish- ments	Establishments with an average of—									
			1-4 em- ployees	5-9 em- ployees	10-19 em- ployees	20-49 em- ployees	50-99 em- ployees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
3589	<u>Service and household machinery, nec:</u>											
	Number of establishments....	238	90	25	41	34	19	20	6	3	...	...
	Total employees.....	10,437	215	178	631	1,044	1,408	3,275	3,683	(D)	...	...
	Total payroll.....\$1,000..	46,791	767	699	2,672	4,360	6,743	14,110	17,437	(D)	...	...
	Production workers:											
	Number.....	6,944	157	124	429	746	930	2,143	2,411	(D)	...	...
	Man-hours.....1,000..	13,825	282	230	854	1,576	1,858	4,159	4,862	(D)	...	...
	Wages.....\$1,000..	25,997	440	372	1,503	2,683	3,339	7,790	9,867	(D)	...	...
	Value added by mfg....do....	89,624	1,606	1,620	4,890	8,449	11,275	29,240	32,542	(D)	...	...
	Cost of materials.....do....	82,609	2,051	1,443	5,441	7,513	10,014	25,450	30,695	(D)	...	...
	Value of shipments.....do....	172,233	3,657	3,064	10,332	15,962	21,289	54,690	63,237	(D)	...	...
	Capital expenditures.....do....	4,065	(1)	(1)	(1)	(1)	(1)	937	2,128	(D)	...	...
	Horsepower.....1,000 hp..	26	(2)	(2)	1	4	2	7	12	(D)	...	...
	Electricity used..mil. kwh..	52	1	1	2	3	3	9	33	(D)	...	...
3591	<u>Valves and fittings, except plumbing:</u>											
	Number of establishments....	556	101	52	89	112	58	70	42	18	13	1
	Total employees.....	75,016	237	370	1,327	3,477	4,170	10,937	14,702	13,730	26,063	(D)
	Total payroll.....\$1,000..	333,213	800	1,486	5,629	15,273	18,812	50,092	66,269	59,103	115,747	(D)
	Production workers:											
	Number.....	58,425	187	288	977	2,675	3,205	8,201	11,317	10,704	20,869	(D)
	Man-hours.....1,000..	115,312	363	560	1,910	5,337	6,628	16,979	22,938	20,930	39,666	(D)
	Wages.....\$1,000..	235,730	575	985	3,534	9,773	12,341	23,126	46,603	52,831	85,960	(D)
	Value added by mfg....do....	567,518	1,803	2,761	10,430	28,997	36,141	94,562	115,738	108,828	168,255	(D)
	Cost of materials.....do....	391,493	2,138	2,269	9,194	23,340	26,095	66,487	79,294	72,074	110,600	(D)
	Value of shipments.....do....	959,012	3,942	5,031	19,624	52,338	62,236	161,049	195,033	180,902	278,855	(D)
	Capital expenditures.....do....	24,869	(1)	(1)	524	1,318	1,720	3,910	4,092	3,794	9,050	(D)
	Horsepower.....1,000 hp..	320	12	1	6	15	18	49	54	60	105	(D)
	Electricity used..mil. kwh..	396	15	1	4	11	14	46	66	69	170	(D)
3592	<u>Fabricated pipe and fittings:</u>											
	Number of establishments....	250	47	35	38	62	37	23	4	4	...	...
	Total employees.....	12,670	105	259	535	1,913	2,548	3,549	1,398	2,359	...	...
	Total payroll.....\$1,000..	62,092	331	1,057	2,004	8,052	11,554	17,298	7,694	14,100	...	...
	Production workers:											
	Number.....	9,943	79	201	421	1,477	2,020	2,789	994	1,961	...	...
	Man-hours.....1,000..	19,352	154	391	807	2,951	4,192	5,707	2,123	3,025	...	...
	Wages.....\$1,000..	43,945	245	724	1,435	5,402	7,969	12,118	4,797	11,252	...	...
	Value added by mfg....do....	123,028	876	1,984	3,658	15,067	18,795	31,856	24,696	26,093	...	...
	Cost of materials.....do....	102,871	909	1,760	4,701	14,985	18,891	26,563	10,957	24,105	...	...
	Value of shipments.....do....	225,902	1,786	3,744	8,359	30,051	37,690	58,421	35,653	50,198	...	...
	Capital expenditures.....do....	4,804	(1)	(1)	(1)	632	857	954	802	1,143	...	...
	Horsepower.....1,000 hp..	63	1	1	3	12	14	17	6	9	...	...
	Electricity used..mil. kwh..	59	2	1	3	10	11	16	6	10	...	...
3593	<u>Ball and roller bearings:</u>											
	Number of establishments....	102	4	3	14	19	9	16	14	8	9	6
	Total employees.....	49,720	8	21	200	618	650	2,657	4,850	5,755	14,232	20,727
	Total payroll.....\$1,000..	214,088	27	85	848	2,581	2,504	11,288	21,314	25,485	62,511	87,443
	Production workers:											
	Number.....	39,974	6	15	149	501	552	2,220	3,793	4,696	11,331	16,708
	Man-hours.....1,000..	78,233	11	32	302	979	1,128	4,572	7,340	9,243	22,259	32,366
	Wages.....\$1,000..	159,813	18	60	559	1,692	1,914	8,247	15,166	19,008	46,903	66,243
	Value added by mfg....do....	335,101	196	140	1,547	3,973	4,055	18,759	34,638	35,884	104,759	131,147
	Cost of materials.....do....	202,051	353	41	1,129	2,062	3,704	10,298	22,508	43,249	48,810	69,893
	Value of shipments.....do....	537,151	550	181	2,677	6,035	7,759	29,058	57,146	79,134	153,569	201,040
	Capital expenditures.....do....	27,828	(1)	(1)	(1)	(1)	(1)	714	1,410	3,946	12,491	8,763
	Horsepower.....1,000 hp..	284	(2)	(2)	1	3	5	12	27	32	94	110
	Electricity used..mil. kwh..	378	(3)	(3)	1	2	5	17	37	48	117	151
3594	<u>Industrial patterns and molds:</u>											
	Number of establishments....	1,800	969	370	238	147	57	16	3	...	...	...
	Total employees.....	19,864	2,393	2,565	3,345	4,438	3,921	2,116	1,084	...	...	...
	Total payroll.....\$1,000..	98,265	9,144	12,016	16,822	22,746	20,576	12,478	4,481	...	...	...
	Production workers:											
	Number.....	16,900	1,925	2,165	2,890	3,811	3,329	1,869	909	...	...	...
	Man-hours.....1,000..	35,230	3,871	4,362	5,899	8,300	7,266	3,960	1,569	...	...	...
	Wages.....\$1,000..	77,840	6,506	9,284	13,691	18,133	16,784	10,006	3,434	...	...	...
	Value added by mfg....do....	152,049	19,697	19,621	24,815	32,674	30,418	18,250	6,572	...	...	...
	Cost of materials.....do....	41,735	6,449	6,068	6,574	7,929	7,009	5,306	2,398	...	...	...
	Value of shipments.....do....	193,784	26,146	25,689	31,390	40,603	37,428	23,556	8,970	...	...	...
	Capital expenditures.....do....	6,939	1,157	1,021	1,311	1,377	1,115	710	247	...	...	...
	Horsepower.....1,000 hp..	40	1	4	6	12	9	7	1	...	...	...
	Electricity used..mil. kwh..	38	4	4	5	8	8	6	3	...	...	...

See footnotes at end of table.

SIZE OF ESTABLISHMENTS

203-81

Table 1.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR MAJOR INDUSTRY GROUPS AND INDUSTRIES: 1954—Con.

Code	Industry group, industry, and item	Total, all estab- lish- ments	Establishments with an average of—									
			1-4 em- ployees	5-9 em- ployees	10-19 em- ployees	20-49 em- ployees	50-99 em- ployees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
3599	<u>Machine shops:</u>											
	Number of establishments....	6,832	3,458	1,308	1,089	673	181	82	18	17	5	1
	Total employees.....	103,727	8,133	9,304	15,377	19,880	12,636	12,509	6,499	9,909	9,477	(D)
	Total payroll.....\$1,000..	442,177	24,938	36,264	64,093	86,107	57,526	58,447	28,279	44,025	42,495	(D)
	Production workers:											
	Number.....	83,782	6,752	7,831	12,847	16,494	10,306	10,150	4,866	7,741	6,790	(D)
	Man-hours.....1,000..	171,400	13,327	15,782	25,895	34,456	21,215	21,909	9,630	15,779	13,403	(D)
	Wages.....\$1,000..	326,031	19,830	28,680	48,806	64,255	41,173	43,349	19,500	30,908	29,526	(D)
	Value added by mfg....do....	732,387	54,690	60,877	103,005	137,800	89,548	103,254	44,386	72,290	66,534	(D)
	Cost of materials.....do....	375,318	27,233	26,061	43,223	61,007	51,734	54,466	26,610	52,523	32,461	(D)
	Value of shipments.....do....	1,107,706	81,913	86,948	146,229	198,808	141,282	157,721	70,997	124,813	98,995	(D)
	Capital expenditures..do....	39,588	4,707	3,985	5,719	7,376	3,549	6,011	1,807	2,399	4,034	(D)
	Horsepower.....1,000 hp..	425	19	26	63	96	53	56	31	22	59	(D)
	Electricity used..mil. kwh..	446	37	31	49	56	47	57	40	41	88	(D)
36	<u>Electrical machinery:</u>											
	Number of establishments....	5,758	1,449	760	712	896	591	589	339	215	142	65
	Total employees.....	959,126	3,506	5,432	10,272	29,179	41,918	93,341	117,148	151,614	210,566	295,724
	Total payroll.....\$1,000..	3,950,994	10,380	18,964	36,674	107,754	162,370	359,876	459,330	607,989	873,206	1,314,402
	Production workers:											
	Number.....	722,443	2,783	4,273	8,148	23,507	33,690	75,004	91,287	117,433	159,777	206,473
	Man-hours.....1,000..	1,422,339	5,211	8,401	15,625	45,206	66,335	151,714	181,448	232,432	309,635	406,266
	Wages.....\$1,000..	2,645,588	7,444	13,353	24,935	71,848	107,859	248,236	312,560	420,455	590,933	847,901
	Value added by mfg....do....	7,403,134	23,916	36,813	68,212	194,513	289,352	662,591	854,449	1,163,017	1,686,697	2,423,515
	Cost of materials.....do....	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)
	Value of shipments.....do....	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)
	Capital expenditures..do....	340,677	1,846	4,753	3,726	12,790	10,694	32,139	50,178	57,674	61,499	105,312
	Horsepower.....1,000 hp..	2,521	123	5	14	44	82	190	331	376	484	872
	Electricity used..mil. kwh..	5,604	188	21	36	94	165	379	860	1,040	1,119	1,702
3611	<u>Wiring devices and supplies:</u>											
	Number of establishments....	395	78	56	50	76	43	49	21	14	8	...
	Total employees.....	43,195	198	394	698	2,386	2,959	7,649	7,304	9,511	12,092	...
	Total payroll.....\$1,000..	168,474	592	1,356	2,637	8,800	11,800	29,607	28,777	39,352	45,552	...
	Production workers:											
	Number.....	34,882	166	323	562	2,004	2,424	6,355	5,718	7,072	10,256	...
	Man-hours.....1,000..	68,944	319	634	1,027	3,936	4,963	12,512	11,234	13,981	20,336	...
	Wages.....\$1,000..	122,166	454	965	1,699	6,178	8,014	22,189	19,643	26,681	36,339	...
	Value added by mfg....do....	340,911	1,443	3,136	5,796	15,206	25,472	67,059	62,338	74,394	86,063	...
	Cost of materials.....do....	243,455	1,613	3,432	4,726	13,103	19,606	48,348	54,565	48,575	49,483	...
	Value of shipments.....do....	584,366	3,057	6,569	10,523	28,310	45,077	115,407	116,903	122,970	135,546	...
	Capital expenditures..do....	12,346	(1)	(1)	(1)	677	825	2,826	2,494	2,668	2,082	...
	Horsepower.....1,000 hp..	136	12	1	1	4	10	19	21	34	34	...
	Electricity used..mil. kwh..	189	19	2	2	7	9	36	31	39	44	...
3612	<u>Carbon and graphite prod.:</u>											
	Number of establishments....	53	11	4	7	8	5	5	6	7	...	...
	Total employees.....	8,297	29	36	101	281	346	574	6,928	(D)	...	...
	Total payroll.....\$1,000..	35,976	83	163	352	996	1,199	2,291	30,890	(D)	...	...
	Production workers:											
	Number.....	6,352	23	26	68	234	255	461	5,281	(D)	...	...
	Man-hours.....1,000..	12,600	44	52	138	421	591	882	10,470	(D)	...	...
	Wages.....\$1,000..	24,190	65	97	208	624	763	1,492	20,939	(D)	...	...
	Value added by mfg....do....	62,873	187	341	573	1,678	1,894	2,873	55,323	(D)	...	...
	Cost of materials.....do....	48,136	107	131	381	822	710	1,752	44,231	(D)	...	...
	Value of shipments.....do....	111,010	295	473	955	2,501	2,604	4,625	99,555	(D)	...	...
	Capital expenditures..do....	6,492	(1)	(1)	(1)	(1)	(1)	(1)	6,161	(D)	...	...
	Horsepower.....1,000 hp..	80	(2)	(2)	(2)	1	2	3	74	(D)	...	...
	Electricity used..mil. kwh..	626	(3)	(3)	(3)	1	1	4	620	(D)	...	...
3613	<u>Elec. measuring instruments:</u>											
	Number of establishments....	303	77	44	39	57	36	26	11	8	1	4
	Total employees.....	33,049	187	333	574	1,769	2,665	3,757	3,503	4,907	15,350	(D)
	Total payroll.....\$1,000..	145,131	634	1,359	2,190	7,291	11,303	15,035	14,990	23,297	69,030	(D)
	Production workers:											
	Number.....	24,223	141	249	439	1,318	2,049	2,992	2,457	3,468	11,107	(D)
	Man-hours.....1,000..	47,679	260	481	833	2,460	3,915	5,960	4,787	6,792	22,187	(D)
	Wages.....\$1,000..	90,873	398	856	1,419	4,301	7,072	9,794	8,531	14,360	44,140	(D)
	Value added by mfg....do....	248,478	1,404	2,188	3,450	12,732	18,559	26,196	22,008	38,355	123,581	(D)
	Cost of materials.....do....	110,978	1,004	1,663	2,524	8,988	11,615	16,104	12,570	22,238	34,269	(D)
	Value of shipments.....do....	359,456	2,408	3,852	5,975	21,721	30,175	42,301	34,578	60,594	157,850	(D)
	Capital expenditures..do....	16,133	(1)	(1)	506	(1)	(1)	(1)	8,401	1,786	4,049	(D)
	Horsepower.....1,000 hp..	31	(2)	(2)	(2)	1	1	2	7	2	18	(D)
	Electricity used..mil. kwh..	98	3	(3)	1	3	4	6	9	13	59	(D)

See footnotes at end of table.

Table 1.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR MAJOR INDUSTRY GROUPS AND INDUSTRIES: 1954—Con.

Code	Industry group, industry, and item	Total, all estab- lish- ments	Establishments with an average of—									
			1-4 em- ployees	5-9 em- ployees	10-19 em- ployees	20-49 em- ployees	50-99 em- ployees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
3614	<u>Motors and generators:</u>											
	Number of establishments....	309	46	24	22	42	48	44	32	24	16	11
	Total employees.....	112,003	123	173	314	1,354	3,536	6,936	10,901	18,050	25,349	45,266
	Total payroll.....\$1,000..	494,556	397	602	1,134	5,198	14,700	29,332	43,691	78,430	115,211	205,860
	Production workers:											
	Number.....	82,420	98	141	249	1,059	2,846	5,598	8,452	13,905	18,040	32,029
	Man-hours.....1,000..	161,343	178	266	427	2,043	5,679	11,648	16,879	28,135	33,406	62,680
	Wages.....\$1,000..	334,271	255	431	666	3,195	10,053	20,242	30,482	54,244	75,827	138,874
	Value added by mfg....do....	844,128	832	920	1,536	8,247	23,529	52,553	73,663	140,201	183,108	359,536
	Cost of materials.....do....	544,949	898	936	1,163	6,724	24,299	40,512	50,101	90,901	117,001	217,410
	Value of shipments.....do....	1,389,078	1,731	1,857	2,700	14,972	47,829	93,065	123,764	231,102	300,109	571,947
	Capital expenditures....do....	38,310	(1)	(1)	(1)	(1)	963	2,075	3,342	7,191	5,827	18,345
	Horsepower.....1,000 hp..	659	78	(2)	2	5	17	19	66	92	112	268
	Electricity used..mil. kwh..	863	62	1	1	4	14	25	45	123	144	444
3615	<u>Transformers:</u>											
	Number of establishments....	164	39	14	22	27	26	16	3	6	6	5
	Total employees.....	40,956	98	104	316	897	1,871	2,430	901	4,393	8,575	21,369
	Total payroll.....\$1,000..	186,491	267	334	1,059	3,220	6,899	8,800	3,495	17,576	40,107	104,733
	Production workers:											
	Number.....	29,234	76	81	256	741	1,578	2,031	716	3,512	5,933	14,307
	Man-hours.....1,000..	58,414	161	160	509	1,395	3,192	4,099	1,419	7,262	11,610	28,604
	Wages.....\$1,000..	121,715	207	260	716	2,297	4,758	6,342	2,555	12,648	25,302	66,627
	Value added by mfg....do....	410,245	574	589	1,741	4,881	11,151	17,670	5,584	43,377	75,079	249,596
	Cost of materials.....do....	275,841	643	383	1,322	3,856	11,311	12,726	6,666	38,424	51,861	148,646
	Value of shipments.....do....	686,087	1,218	973	3,063	8,738	22,463	30,396	12,250	81,801	126,940	398,242
	Capital expenditures....do....	22,852	(1)	(1)	(1)	(1)	519	741	(1)	5,181	4,444	11,540
	Horsepower.....1,000 hp..	198	(2)	(2)	(2)	1	1	5	16	17	31	127
	Electricity used..mil. kwh..	362	(3)	(3)	1	2	5	13	3	38	51	249
3616	<u>Electrical control apparatus:</u>											
	Number of establishments....	452	97	54	55	70	53	52	35	18	14	4
	Total employees.....	79,314	238	396	812	2,290	3,593	8,611	12,363	11,908	22,437	16,664
	Total payroll.....\$1,000..	361,398	769	1,494	3,280	10,022	15,779	37,332	53,964	51,415	103,645	83,696
	Production workers:											
	Number.....	56,183	175	295	619	1,750	2,642	6,510	9,180	8,123	15,193	11,694
	Man-hours.....1,000..	111,372	334	594	1,173	3,402	5,170	12,891	19,181	15,974	29,723	22,927
	Wages.....\$1,000..	228,245	492	1,026	2,104	6,296	9,667	24,658	35,392	30,342	64,562	53,704
	Value added by mfg....do....	700,477	1,557	3,077	5,974	16,233	29,202	69,038	99,044	89,938	213,936	172,473
	Cost of materials.....do....	396,238	1,595	2,390	5,390	15,668	25,451	51,991	63,648	57,842	99,590	72,668
	Value of shipments.....do....	1,096,715	3,153	5,468	11,365	31,901	54,654	121,031	162,693	147,780	313,527	245,142
	Capital expenditures....do....	31,478	(1)	(1)	(1)	3,194	768	8,352	3,808	5,534	5,434	3,661
	Horsepower.....1,000 hp..	165	2	(2)	1	4	5	15	13	18	48	59
	Electricity used..mil. kwh..	334	6	2	2	5	8	21	29	33	106	122
3617	<u>Electrical welding apparatus:</u>											
	Number of establishments....	119	25	21	11	23	13	20	4	1	1	...
	Total employees.....	8,186	61	154	178	710	953	3,110	3,017	(D)	(D)	...
	Total payroll.....\$1,000..	45,719	236	652	756	3,163	5,974	15,857	19,078	(D)	(D)	...
	Production workers:											
	Number.....	5,484	45	103	126	532	679	2,186	1,809	(D)	(D)	...
	Man-hours.....1,000..	11,400	88	200	247	1,094	1,447	4,636	3,685	(D)	(D)	...
	Wages.....\$1,000..	26,427	168	379	482	2,039	3,621	9,930	2,805	(D)	(D)	...
	Value added by mfg....do....	78,645	542	1,530	1,415	4,947	11,535	28,091	30,582	(D)	(D)	...
	Cost of materials.....do....	90,200	573	1,269	1,673	5,953	12,039	34,760	33,931	(D)	(D)	...
	Value of shipments.....do....	168,846	1,116	2,800	3,089	10,900	23,574	62,851	64,514	(D)	(D)	...
	Capital expenditures....do....	4,713	(1)	(1)	(1)	1,402	(1)	826	2,079	(D)	(D)	...
	Horsepower.....1,000 hp..	33	1	1	(2)	1	4	14	12	(D)	(D)	...
	Electricity used..mil. kwh..	54	1	1	1	4	5	16	26	(D)	(D)	...
3619	<u>Electrical industrial apparatus, nec:</u>											
	Number of establishments....	235	54	45	39	40	21	24	5	5	2	...
	Total employees.....	14,996	127	334	561	1,355	1,489	3,558	1,605	5,964	(D)	...
	Total payroll.....\$1,000..	56,361	393	1,282	2,131	5,020	6,676	12,651	7,071	21,135	(D)	...
	Production workers:											
	Number.....	11,293	94	245	429	1,049	1,128	2,915	1,168	4,263	(D)	...
	Man-hours.....1,000..	21,988	183	491	825	2,046	2,162	5,751	2,365	8,161	(D)	...
	Wages.....\$1,000..	36,394	241	793	1,329	3,197	3,901	8,725	4,241	13,964	(D)	...
	Value added by mfg....do....	109,656	781	2,367	3,515	8,240	10,823	23,084	12,331	48,513	(D)	...
	Cost of materials.....do....	73,594	655	1,562	2,829	5,741	12,036	13,983	8,568	28,218	(D)	...
	Value of shipments.....do....	183,250	1,436	3,930	6,344	13,981	22,859	37,067	20,900	76,731	(D)	...
	Capital expenditures....do....	3,717	(1)	(1)	(1)	(1)	(1)	667	(1)	1,971	(D)	...
	Horsepower.....1,000 hp..	46	(2)	(2)	1	1	1	2	5	36	(D)	...
	Electricity used..mil. kwh..	104	1	1	2	3	4	17	11	65	(D)	...

See footnotes at end of table.

SIZE OF ESTABLISHMENTS

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Table 1.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR MAJOR INDUSTRY GROUPS AND INDUSTRIES: 1954—Con.

Code	Industry group, industry, and item	Total, all estab- lish- ments	Establishments with an average of—									
			1-4 em- ployees	5-9 em- ployees	10-19 em- ployees	20-49 em- ployees	50-99 em- ployees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
3621	Electrical appliances:											
	Number of establishments....	365	125	65	36	38	36	25	15	15	7	3
	Total employees.....	48,582	293	463	540	1,259	2,593	4,021	5,366	11,014	23,029	(D)
	Total payroll.....\$1,000..	201,827	784	1,500	1,844	4,308	8,974	14,841	20,887	45,984	102,702	(D)
	Production workers:											
	Number.....	38,661	222	355	421	991	2,107	3,418	4,369	8,557	18,218	(D)
	Man-hours.....1,000..	75,562	371	657	780	1,821	4,044	7,099	8,405	17,163	35,220	(D)
	Wages.....\$1,000..	145,587	487	966	1,228	2,690	5,899	10,966	15,122	32,340	75,886	(D)
	Value added by mfg....do....	424,031	1,783	2,834	3,212	9,615	18,424	27,656	44,993	101,294	214,216	(D)
	Cost of materials.....do....	371,272	1,876	2,641	3,848	10,223	21,473	29,402	44,313	75,692	181,801	(D)
	Value of shipments.....do....	795,304	3,659	5,476	7,061	19,839	39,898	57,059	89,307	176,986	396,017	(D)
	Capital expenditures..do....	20,786	(1)	(1)	(1)	(1)	603	680	2,619	6,167	9,930	(D)
	Horsepower.....1,000 hp..	127	10	1	1	2	7	9	14	24	59	(D)
	Electricity used..mil. kwh..	294	9	1	2	4	12	14	31	47	174	(D)
3631	Insulated wire and cable:											
	Number of establishments....	136	21	21	21	24	11	20	12	4	2	...
	Total employees.....	14,410	55	147	303	849	762	3,325	4,455	4,512	(D)	...
	Total payroll.....\$1,000..	59,011	219	482	1,249	3,105	3,074	13,274	17,361	20,245	(D)	...
	Production workers:											
	Number.....	11,579	43	111	222	694	696	2,658	3,536	3,617	(D)	...
	Man-hours.....1,000..	26,672	76	200	457	1,356	1,273	8,872	7,103	7,334	(D)	...
	Wages.....\$1,000..	42,142	107	321	745	2,100	1,904	9,079	12,701	15,183	(D)	...
	Value added by mfg....do....	110,317	490	1,081	2,767	5,652	5,654	23,992	33,133	37,545	(D)	...
	Cost of materials.....do....	212,693	776	1,909	8,372	12,090	8,279	38,449	68,572	74,245	(D)	...
	Value of shipments.....do....	323,011	1,267	2,990	11,140	17,741	13,933	62,441	101,705	111,791	(D)	...
	Capital expenditures..do....	7,961	(1)	(1)	(1)	690	(1)	1,091	3,246	2,259	(D)	...
	Horsepower.....1,000 hp..	84	3	(2)	1	2	1	12	35	30	(D)	...
	Electricity used..mil. kwh..	160	8	1	3	5	2	19	57	65	(D)	...
3641	Engine electrical equipment:											
	Number of establishments....	169	27	16	21	33	21	21	15	7	5	3
	Total employees.....	46,349	59	106	304	1,113	1,365	3,283	4,939	4,659	8,357	22,160
	Total payroll.....\$1,000..	200,279	151	335	963	4,072	5,034	11,297	17,411	18,480	38,529	104,003
	Production workers:											
	Number.....	37,219	49	87	240	923	1,130	2,750	4,277	3,574	6,662	17,522
	Man-hours.....1,000..	74,147	92	160	466	1,732	2,314	5,295	8,104	7,193	13,222	35,565
	Wages.....\$1,000..	146,769	126	254	708	2,938	3,450	7,809	12,512	12,917	27,784	78,268
	Value added by mfg....do....	339,251	381	522	1,686	6,636	8,455	18,044	28,848	24,477	76,979	173,220
	Cost of materials.....do....	247,872	447	488	1,294	8,817	6,261	13,507	26,702	19,941	63,762	106,650
	Value of shipments.....do....	587,124	828	1,011	2,981	15,454	14,717	31,551	55,550	44,418	140,741	279,870
	Capital expenditures..do....	18,172	(1)	(1)	(1)	(1)	(1)	579	1,424	1,806	5,863	7,921
	Horsepower.....1,000 hp..	110	3	(2)	1	1	1	3	10	9	23	60
	Electricity used..mil. kwh..	244	11	(3)	(3)	2	2	7	8	13	59	142
3651	Electric lamps (bulbs):											
	Number of establishments....	66	4	5	4	5	5	14	15	12	1	1
	Total employees.....	21,963	10	36	61	174	352	2,839	5,574	12,914	(D)	(D)
	Total payroll.....\$1,000..	78,921	30	100	201	460	946	9,710	18,628	48,843	(D)	(D)
	Production workers:											
	Number.....	19,172	7	29	53	155	305	2,409	5,047	11,163	(D)	(D)
	Man-hours.....1,000..	36,750	13	59	92	291	618	4,702	9,555	21,416	(D)	(D)
	Wages.....\$1,000..	63,205	20	71	155	366	710	7,301	15,627	38,951	(D)	(D)
	Value added by mfg....do....	218,137	50	238	307	921	1,595	21,803	67,589	125,634	(D)	(D)
	Cost of materials.....do....	108,205	48	97	94	456	911	14,261	31,014	61,322	(D)	(D)
	Value of shipments.....do....	326,343	98	335	401	1,377	2,506	36,064	98,603	186,956	(D)	(D)
	Capital expenditures..do....	8,288	(1)	(1)	(1)	(1)	(1)	1,462	1,437	5,321	(D)	(D)
	Horsepower.....1,000 hp..	45	(2)	(2)	(2)	(2)	(2)	4	11	30	(D)	(D)
	Electricity used..mil. kwh..	163	(3)	(3)	(3)	(3)	1	14	48	100	(D)	(D)
3661	Radios and related products:											
	Number of establishments....	1,753	431	210	227	291	178	179	108	62	46	21
	Total employees.....	293,998	1,028	1,502	3,244	9,389	12,669	28,990	35,882	43,450	68,276	89,564
	Total payroll.....\$1,000..	1,130,378	3,038	5,035	11,055	32,307	43,334	105,171	135,542	161,326	272,680	360,890
	Production workers:											
	Number.....	220,867	862	1,252	2,699	7,710	10,480	23,394	27,632	35,704	52,035	59,097
	Man-hours.....1,000..	435,056	1,608	2,554	5,264	14,809	20,289	45,047	55,473	71,253	101,325	117,433
	Wages.....\$1,000..	742,732	2,371	3,930	8,304	22,068	30,082	71,760	90,357	117,393	178,251	218,215
	Value added by mfg....do....	2,130,207	7,186	9,429	21,534	60,478	75,737	183,468	237,298	303,546	495,714	735,814
	Cost of materials.....do....	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)
	Value of shipments.....do....	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)
	Capital expenditures..do....	73,594	612	2,500	936	2,412	2,796	5,185	7,104	11,543	13,244	27,262
	Horsepower.....1,000 hp..	359	11	(2)	3	10	10	27	56	41	66	135
	Electricity used..mil. kwh..	898	58	3	10	21	28	65	91	135	229	258

See footnotes at end of table.

Table 1.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR MAJOR INDUSTRY GROUPS AND INDUSTRIES: 1954—Con.

Code	Industry group, industry, and item	Total, all estab- lish- ments	Establishments with an average of—									
			1-4 em- ployees	5-9 em- ployees	10-19 em- ployees	20-49 em- ployees	50-99 em- ployees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
3662	Electronic tubes:											
	Number of establishments....	157	11	10	19	30	11	19	17	15	19	6
	Total employees.....	70,950	32	72	258	1,074	762	2,788	6,188	10,356	27,561	21,856
	Total payroll.....\$1,000..	254,854	81	271	796	3,920	3,142	9,973	23,784	39,875	91,370	81,639
	Production workers:											
	Number.....	57,856	28	60	212	905	626	2,212	4,965	7,521	23,894	17,430
	Man-hours.....1,000..	112,052	48	113	407	1,826	1,243	4,363	9,716	14,401	46,098	33,834
	Wages.....\$1,000..	186,882	61	195	621	2,844	1,967	7,030	16,748	25,660	73,600	58,152
	Value added by mfg....do....	461,904	156	368	1,421	6,847	4,800	15,291	30,844	76,171	188,661	137,343
	Cost of materials.....do....	247,278	131	202	831	4,047	4,125	9,995	30,465	45,501	100,916	51,061
	Value of shipments.....do....	709,183	287	571	2,252	10,895	8,926	25,287	61,310	121,673	289,577	188,404
	Capital expenditures..do....	32,836	(1)	(1)	(1)	1,379	(1)	1,165	6,969	3,339	11,774	7,894
	Horsepower.....1,000 hp..	101	(2)	(2)	(2)	1	1	1	5	10	42	41
	Electricity used..mil. kwh..	513	2	(3)	1	3	7	16	57	103	181	143
3663	Phonograph records:											
	Number of establishments....	143	70	18	21	14	8	7	2	1	2	...
	Total employees.....	6,152	150	123	279	373	561	1,200	3,465	(D)	(D)	...
	Total payroll.....\$1,000..	23,312	423	439	945	1,315	2,148	4,609	13,432	(D)	(D)	...
	Production workers:											
	Number.....	4,740	116	101	223	313	458	896	2,630	(D)	(D)	...
	Man-hours.....1,000..	9,451	212	170	438	646	960	1,763	5,260	(D)	(D)	...
	Wages.....\$1,000..	15,685	295	291	647	951	1,615	3,114	8,769	(D)	(D)	...
	Value added by mfg....do....	57,387	1,355	1,109	2,170	4,043	3,475	11,101	34,131	(D)	(D)	...
	Cost of materials.....do....	27,269	1,716	752	1,725	3,304	3,053	5,545	11,171	(D)	(D)	...
	Value of shipments.....do....	84,656	3,072	1,862	3,895	7,347	6,529	16,646	45,304	(D)	(D)	...
	Capital expenditures..do....	2,992	(1)	(1)	(1)	(1)	590	602	1,123	(D)	(D)	...
	Horsepower.....1,000 hp..	16	1	(2)	(2)	1	3	6	5	(D)	(D)	...
	Electricity used..mil. kwh..	34	2	1	1	2	3	9	16	(D)	(D)	...
3664	Telephone and telegraph equipment:											
	Number of establishments....	74	6	6	7	11	9	13	3	7	6	6
	Total employees.....	64,663	15	43	108	388	694	2,101	1,126	5,909	54,276	(D)
	Total payroll.....\$1,000..	300,589	50	176	418	1,542	3,001	8,415	4,806	25,367	256,811	(D)
	Production workers:											
	Number.....	43,717	10	29	81	327	519	1,683	833	4,022	36,210	(D)
	Man-hours.....1,000..	84,627	19	60	164	634	1,033	3,360	1,638	7,929	69,787	(D)
	Wages.....\$1,000..	184,124	35	108	289	1,203	1,911	6,050	3,159	15,026	156,340	(D)
	Value added by mfg....do....	497,829	105	278	723	2,893	4,332	13,965	5,296	37,204	433,030	(D)
	Cost of materials.....do....	299,280	67	198	851	1,774	3,524	11,336	9,571	27,598	244,358	(D)
	Value of shipments.....do....	797,109	172	477	1,575	4,668	7,857	25,301	14,868	64,802	677,388	(D)
	Capital expenditures..do....	22,144	(1)	(1)	(1)	(1)	(1)	(1)	(1)	1,254	20,082	(D)
	Horsepower.....1,000 hp..	130	(2)	(2)	(2)	(2)	2	3	(2)	7	118	(D)
	Electricity used..mil. kwh..	223	(3)	(3)	(3)	1	2	7	3	13	197	(D)
3669	Communication equipment, nec:											
	Number of establishments....	141	54	35	16	14	5	9	5	1	1	1
	Total employees.....	10,053	136	241	219	426	331	1,383	1,612	5,700	(D)	(D)
	Total payroll.....\$1,000..	43,079	371	807	748	1,816	1,331	5,206	6,763	26,033	(D)	(D)
	Production workers:											
	Number.....	6,184	98	179	161	319	208	1,062	1,108	3,044	(D)	(D)
	Man-hours.....1,000..	11,942	174	348	324	658	413	2,054	2,277	5,689	(D)	(D)
	Wages.....\$1,000..	23,035	256	581	487	1,073	696	3,235	3,885	12,818	(D)	(D)
	Value added by mfg....do....	66,769	704	1,456	1,188	3,127	1,835	9,634	10,449	38,375	(D)	(D)
	Cost of materials.....do....	33,424	593	1,537	898	2,335	1,634	6,194	9,263	10,967	(D)	(D)
	Value of shipments.....do....	100,194	1,297	2,993	2,087	5,462	3,470	15,829	19,712	49,342	(D)	(D)
	Capital expenditures..do....	1,013	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(D)	(D)
	Horsepower.....1,000 hp..	23	...	(2)	(2)	(2)	(2)	1	1	21	(D)	(D)
	Electricity used..mil. kwh..	32	(3)	1	1	1	1	3	4	21	(D)	(D)
3691	Storage batteries:											
	Number of establishments....	308	126	42	39	35	31	22	8	2	3	...
	Total employees.....	15,670	302	289	569	1,175	2,133	2,980	2,720	5,500	(D)	...
	Total payroll.....\$1,000..	66,872	853	987	2,091	4,545	8,550	12,833	11,423	25,588	(D)	...
	Production workers:											
	Number.....	11,899	246	230	416	897	1,756	2,402	2,139	3,810	(D)	...
	Man-hours.....1,000..	23,244	507	473	779	1,754	3,439	4,888	4,257	7,146	(D)	...
	Wages.....\$1,000..	46,415	691	753	1,294	3,149	6,176	9,425	8,411	16,514	(D)	...
	Value added by mfg....do....	127,503	2,266	2,002	4,185	10,808	19,240	24,113	29,078	35,810	(D)	...
	Cost of materials.....do....	213,869	3,898	3,274	5,948	18,404	45,855	53,125	38,833	44,529	(D)	...
	Value of shipments.....do....	341,374	6,164	5,278	10,134	29,212	65,096	77,238	67,911	80,339	(D)	...
	Capital expenditures..do....	10,512	(1)	790	(1)	(1)	1,196	3,807	1,611	2,355	(D)	...
	Horsepower.....1,000 hp..	114	1	1	3	7	13	27	20	42	(D)	...
	Electricity used..mil. kwh..	304	3	4	5	20	51	73	57	91	(D)	...

See footnotes at end of table.

Table 1.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR MAJOR INDUSTRY GROUPS AND INDUSTRIES: 1954—Con.

Code	Industry group, industry, and item	Total, all estab- lish- ments	Establishments with an average of—									
			1-4 em- ployees	5-9 em- ployees	10-19 em- ployees	20-49 em- ployees	50-99 em- ployees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
3692	Primary batteries:											
	Number of establishments....	41	2	2	4	4	5	7	12	4	1	...
	Total employees.....	10,773	21	(D)	66	139	374	910	4,805	4,457	(D)	...
	Total payroll.....\$1,000..	36,633	64	(D)	250	386	1,181	2,906	15,980	15,865	(D)	...
	Production workers:											
	Number.....	8,893	14	(D)	54	121	324	792	4,002	3,584	(D)	...
	Man-hours.....1,000..	16,814	29	(D)	109	211	674	1,526	7,591	6,678	(D)	...
	Wages.....\$1,000..	27,427	43	(D)	195	277	915	2,216	12,242	11,537	(D)	...
	Value added by mfg....do....	62,388	79	(D)	441	409	2,250	5,347	26,994	26,867	(D)	...
	Cost of materials.....do....	59,442	89	(D)	579	364	4,348	4,710	25,606	23,744	(D)	...
	Value of shipments.....do....	121,831	169	(D)	1,021	773	6,598	10,057	52,600	50,611	(D)	...
	Capital expenditures....do....	2,088	(1)	(D)	(1)	(1)	(1)	(1)	989	631	(D)	...
	Horsepower.....1,000 hp..	24	(2)	(D)	(2)	(2)	1	1	14	8	(D)	...
	Electricity used..mil. kwh..	43	(3)	(D)	(3)	(3)	2	3	19	19	(D)	...
3693	X-ray and therapeutic apparatus:											
	Number of establishments....	130	63	20	12	15	8	5	5	1	1	...
	Total employees.....	7,054	161	142	178	493	556	685	4,836	(D)	(D)	...
	Total payroll.....\$1,000..	32,583	470	563	705	2,023	2,404	2,985	23,430	(D)	(D)	...
	Production workers:											
	Number.....	4,601	117	102	130	381	404	473	2,991	(D)	(D)	...
	Man-hours.....1,000..	9,036	214	190	226	691	806	884	6,021	(D)	(D)	...
	Wages.....\$1,000..	17,688	334	351	414	1,248	1,452	1,639	12,247	(D)	(D)	...
	Value added by mfg....do....	51,518	814	983	1,245	3,185	3,537	5,550	36,201	(D)	(D)	...
	Cost of materials.....do....	28,424	731	870	861	2,895	3,086	3,340	16,639	(D)	(D)	...
	Value of shipments.....do....	79,943	1,546	1,853	2,107	6,081	6,623	8,890	52,841	(D)	(D)	...
	Capital expenditures....do....	1,913	(1)	(1)	(1)	(1)	(1)	(1)	1,394	(D)	(D)	...
	Horsepower.....1,000 hp..	15	(2)	(2)	(2)	1	1	1	12	(D)	(D)	...
	Electricity used..mil. kwh..	33	1	1	1	2	2	1	25	(D)	(D)	...
3699	Electrical products, nec:											
	Number of establishments....	245	82	48	40	39	18	12	5	1	...	...
	Total employees.....	8,506	198	329	589	1,285	1,354	2,211	2,537	(D)	...	...
	Total payroll.....\$1,000..	28,545	521	981	1,870	4,245	4,921	7,751	8,255	(D)	...	...
	Production workers:											
	Number.....	6,979	163	265	488	1,084	1,076	1,807	2,094	(D)	...	...
	Man-hours.....1,000..	13,236	301	518	940	1,980	2,110	3,482	3,902	(D)	...	...
	Wages.....\$1,000..	19,608	367	696	1,225	2,814	3,233	5,240	6,032	(D)	...	...
	Value added by mfg....do....	60,472	1,271	2,321	3,333	7,735	7,847	16,063	21,898	(D)	...	...
	Cost of materials.....do....	58,772	1,551	2,369	3,520	8,917	8,414	15,980	18,018	(D)	...	...
	Value of shipments.....do....	119,244	2,823	4,690	6,854	16,653	16,262	32,044	39,917	(D)	...	...
	Capital expenditures....do....	2,330	(1)	(1)	(1)	(1)	(1)	617	721	(D)	...	...
	Horsepower.....1,000 hp..	25	1	1	1	1	1	16	4	(D)	...	...
	Electricity used..mil. kwh..	33	2	2	2	4	2	10	11	(D)	...	...
37	Transportation equipment:											
	Number of establishments....	5,348	1,626	682	723	782	429	402	206	186	167	145
	Total employees.....	1,704,572	3,905	4,869	10,431	24,849	30,052	64,834	74,100	133,078	276,125	1,082,258
	Total payroll.....\$1,000..	8,295,773	11,485	17,444	40,365	103,655	132,339	286,385	338,897	631,096	1,356,549	5,377,524
	Production workers:											
	Number.....	1,327,078	3,274	4,066	8,601	20,571	24,732	53,418	59,939	103,401	220,997	828,033
	Man-hours.....1,000..	2,714,603	6,391	8,198	17,010	41,420	50,206	108,876	122,840	210,089	458,075	1,691,471
	Wages.....\$1,000..	6,003,250	8,858	13,420	30,229	75,854	94,860	213,748	248,963	455,748	1,023,580	3,837,944
	Value added by mfg....do....	13,925,983	22,387	30,078	63,203	164,767	209,837	475,991	550,908	997,959	2,658,363	8,752,451
	Cost of materials.....do....	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)
	Value of shipments.....do....	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)
	Capital expenditures....do....	924,646	2,109	1,958	3,762	6,781	8,316	30,375	17,065	127,931	241,218	485,095
	Horsepower.....1,000 hp..	9,041	207	10	31	106	107	266	312	1,327	1,827	4,848
	Electricity used..mil. kwh..	11,804	269	15	33	71	115	290	400	1,217	2,265	7,129
3713	Truck and bus bodies:											
	Number of establishments....	564	166	99	128	97	36	25	10	3	...	...
	Total employees.....	18,689	451	739	1,840	2,985	2,476	4,305	3,604	2,287	...	...
	Total payroll.....\$1,000..	76,050	1,326	2,588	7,103	11,983	10,445	18,160	14,848	9,595	...	...
	Production workers:											
	Number.....	15,175	358	623	1,509	2,396	2,038	3,541	2,857	1,850	...	...
	Man-hours.....1,000..	30,652	688	1,239	3,040	4,776	4,220	7,435	5,653	3,598	...	...
	Wages.....\$1,000..	55,433	967	1,987	5,283	8,416	7,543	13,513	10,469	7,252	...	...
	Value added by mfg....do....	112,834	2,522	4,123	9,643	16,518	15,183	30,264	20,823	13,756	...	...
	Cost of materials.....do....	119,677	2,454	4,350	9,573	15,932	17,174	28,844	26,109	15,240	...	...
	Value of shipments.....do....	232,514	4,977	8,473	19,217	32,452	32,358	59,108	46,932	28,996	...	...
	Capital expenditures....do....	3,445	(1)	(1)	(1)	(1)	587	1,105	(1)	(1)	...	...
	Horsepower.....1,000 hp..	63	2	1	6	10	11	17	8	8	...	...
	Electricity used..mil. kwh..	79	5	2	5	8	11	25	11	12	...	...

See footnotes at end of table.

MANUFACTURES—SUMMARY STATISTICS

Table 1.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR MAJOR INDUSTRY GROUPS AND INDUSTRIES: 1954—Con.

Code	Industry group, industry, and item	Total, all estab- lish- ments	Establishments with an average of—									
			1-4 em- ployees	5-9 em- ployees	10-19 em- ployees	20-49 em- ployees	50-99 em- ployees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
3715	Truck trailers:											
	Number of establishments....	130	12	12	28	19	23	18	11	4	3	...
	Total employees.....	16,381	35	92	435	607	1,610	2,946	6,619	(D)	4,034	...
	Total payroll.....\$1,000..	72,904	104	336	1,759	2,594	7,397	12,169	28,314	(D)	20,230	...
	Production workers:											
	Number.....	13,023	30	75	340	481	1,307	2,388	5,331	(D)	3,068	...
	Man-hours.....1,000..	26,197	56	145	654	1,006	2,667	4,642	10,736	(D)	6,288	...
	Wages.....\$1,000..	52,352	80	239	1,240	1,848	5,286	8,633	21,227	(D)	13,797	...
	Value added by mfg....do....	113,469	167	595	2,474	3,704	10,388	20,824	47,076	(D)	28,238	...
	Cost of materials.....do....	192,041	279	977	3,934	7,904	13,709	32,033	81,687	(D)	51,516	...
	Value of shipments.....do....	305,510	447	1,572	6,408	11,609	24,098	52,858	128,763	(D)	79,754	...
	Capital expenditures....do....	2,788	(1)	(1)	(1)	(1)	(1)	(1)	1,255	(D)	697	...
	Horsepower.....1,000 hp..	70	8	(2)	3	4	7	12	25	(D)	11	...
	Electricity used..mil. kwh..	78	6	(3)	1	2	6	13	28	(D)	22	...
3716	Automobile trailers:											
	Number of establishments....	275	79	38	33	50	46	27	1	1	...	...
	Total employees.....	11,131	192	280	492	1,585	3,248	5,332	(D)	(D)	...	...
	Total payroll.....\$1,000..	43,874	869	966	1,752	6,007	12,825	21,453	(D)	(D)	...	...
	Production workers:											
	Number.....	9,491	176	253	427	1,347	2,789	4,495	(D)	(D)	...	...
	Man-hours.....1,000..	18,592	387	480	814	2,622	5,571	8,715	(D)	(D)	...	...
	Wages.....\$1,000..	33,031	574	808	1,401	4,479	9,683	16,084	(D)	(D)	...	...
	Value added by mfg....do....	68,784	1,438	1,491	2,584	9,203	21,154	32,912	(D)	(D)	...	...
	Cost of materials.....do....	162,051	2,863	3,064	6,231	23,466	47,437	78,987	(D)	(D)	...	...
	Value of shipments.....do....	230,836	4,302	4,556	8,816	32,669	68,592	111,900	(D)	(D)	...	...
	Capital expenditures....do....	2,404	(1)	(1)	(1)	(1)	604	1,006	(D)	(D)	...	...
	Horsepower.....1,000 hp..	17	(2)	(2)	1	2	5	9	(D)	(D)	...	...
	Electricity used..mil. kwh..	27	(3)	1	1	4	7	14	(D)	(D)	...	...
3717	Motor vehicles and parts:											
	Number of establishments....	1,226	315	126	136	153	98	103	67	71	88	69
	Total employees.....	649,274	733	895	1,913	4,983	7,047	16,607	24,262	50,863	148,143	393,824
	Total payroll.....\$1,000..	3,214,827	2,183	3,161	7,028	19,988	29,968	72,436	112,651	243,951	749,025	1,974,432
	Production workers:											
	Number.....	545,359	600	729	1,518	3,981	5,604	13,248	19,339	41,050	122,612	336,673
	Man-hours.....1,000..	1,125,912	1,150	1,489	2,992	7,954	10,899	26,587	39,508	83,309	260,950	691,070
	Wages.....\$1,000..	2,569,419	1,684	2,463	4,908	13,612	20,303	51,906	81,903	184,465	590,331	1,617,841
	Value added by mfg....do....	6,111,554	4,740	6,076	12,582	36,730	48,990	128,571	190,549	406,994	1,636,821	3,639,498
	Cost of materials.....do....	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)
	Value of shipments.....do....	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)
	Capital expenditures....do....	722,199	(1)	(1)	909	1,403	2,100	19,342	7,701	98,042	210,178	381,759
	Horsepower.....1,000 hp..	4,755	64	2	6	17	29	92	132	894	977	2,542
	Electricity used..mil. kwh..	6,151	103	4	10	19	38	103	171	727	1,429	3,547
3721	Aircraft:											
	Number of establishments....	72	...	1	2	2	3	3	6	15	7	33
	Total employees.....	457,618	...	87	(D)	(D)	200	675	2,271	11,237	11,612	431,534
	Total payroll.....\$1,000..	2,277,320	...	265	(D)	(D)	845	3,324	10,860	57,878	55,370	2,148,775
	Production workers:											
	Number.....	320,445	...	64	(D)	(D)	84	283	1,796	6,983	9,227	302,006
	Man-hours.....1,000..	654,781	...	99	(D)	(D)	115	599	3,706	14,353	19,469	616,439
	Wages.....\$1,000..	1,441,632	...	157	(D)	(D)	189	1,330	7,605	31,690	43,523	1,359,136
	Value added by mfg....do....	3,348,876	...	297	(D)	(D)	1,137	4,252	16,664	81,589	75,818	3,169,116
	Cost of materials.....do....	(4)	...	(4)	(D)	(D)	(4)	(4)	(4)	(4)	(4)	(4)
	Value of shipments.....do....	(4)	...	(4)	(D)	(D)	(4)	(4)	(4)	(4)	(4)	(4)
	Capital expenditures....do....	59,446	...	(1)	(D)	(D)	(1)	(1)	(1)	2,103	1,947	55,008
	Horsepower.....1,000 hp..	850	...	(2)	(D)	(D)	(2)	(2)	2	13	16	819
	Electricity used..mil. kwh..	2,001	...	(3)	(D)	(D)	(3)	2	12	39	47	1,901
3722	Aircraft engines:											
	Number of establishments....	234	16	17	18	50	36	30	20	16	18	13
	Total employees.....	167,383	39	127	270	1,636	2,448	4,697	7,317	11,612	29,466	109,769
	Total payroll.....\$1,000..	819,181	131	545	1,414	8,099	12,896	24,072	37,098	55,190	143,357	536,380
	Production workers:											
	Number.....	117,277	28	94	208	1,331	1,972	3,773	5,814	7,900	20,950	75,204
	Man-hours.....1,000..	243,536	58	213	449	2,828	4,253	8,232	12,489	16,220	43,430	155,361
	Wages.....\$1,000..	522,850	98	391	935	6,058	8,800	17,423	26,752	34,011	94,641	333,739
	Value added by mfg....do....	1,435,443	291	1,079	2,265	12,202	22,044	44,434	65,945	98,800	283,436	904,943
	Cost of materials.....do....	1,753,507	104	527	798	7,178	16,844	43,173	32,084	94,912	312,713	1,245,171
	Value of shipments.....do....	3,188,950	395	1,606	3,063	19,381	38,889	87,607	98,029	193,713	596,149	2,150,115
	Capital expenditures....do....	46,689	(1)	(1)	(1)	(1)	875	750	905	8,525	13,591	21,472
	Horsepower.....1,000 hp..	1,118	1	(2)	1	19	7	20	33	57	187	793
	Electricity used..mil. kwh..	1,390	2	(3)	1	5	12	27	56	116	268	903

See footnotes at end of table.

SIZE OF ESTABLISHMENTS

203-87

Table 1.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR MAJOR INDUSTRY GROUPS AND INDUSTRIES: 1954—Con.

Code	Industry group, industry, and item	Total, all estab- lish- ments	Establishments with an average of—									
			1-4 em- ployees	5-9 em- ployees	10-19 em- ployees	20-49 em- ployees	50-99 em- ployees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
3723	<u>Aircraft propellers:</u>											
	Number of establishments....	16	...	1	2	4	3	1	...	1	2	2
	Total employees.....	16,523	...	177	(D)	(D)	338	(D)	...	16,006	(D)	(D)
	Total payroll.....\$1,000..	78,058	...	710	(D)	(D)	1,612	(D)	...	75,734	(D)	(D)
	Production workers:											
	Number.....	11,647	...	148	(D)	(D)	281	(D)	...	11,216	(D)	(D)
	Man-hours.....1,000..	22,179	...	314	(D)	(D)	594	(D)	...	21,269	(D)	(D)
	Wages.....\$1,000..	49,135	...	527	(D)	(D)	1,271	(D)	...	47,335	(D)	(D)
	Value added by mfg....do....	108,415	...	1,617	(D)	(D)	2,724	(D)	...	104,072	(D)	(D)
	Cost of materials.....do....	101,679	...	797	(D)	(D)	1,435	(D)	...	99,446	(D)	(D)
	Value of shipments.....do....	210,094	...	2,414	(D)	(D)	4,159	(D)	...	203,518	(D)	(D)
	Capital expenditures....do....	4,320	...	(1)	(D)	(D)	(1)	(D)	...	4,285	(D)	(D)
	Horsepower.....1,000 hp..	241	...	(2)	(D)	(D)	2	(D)	...	239	(D)	(D)
	Electricity used..mil. kwh..	150	...	(3)	(D)	(D)	2	(D)	...	148	(D)	(D)
3729	<u>Aircraft equipment, nec:</u>											
	Number of establishments....	1,082	276	149	177	178	90	89	48	35	27	13
	Total employees.....	180,946	680	1,056	2,562	5,686	6,190	14,476	16,813	24,413	44,519	64,548
	Total payroll.....\$1,000..	874,252	2,375	4,424	11,309	27,487	30,283	70,076	78,766	117,128	205,503	326,899
	Production workers:											
	Number.....	136,619	564	848	2,120	4,703	5,061	11,666	13,317	18,366	33,622	46,349
	Man-hours.....1,000..	285,823	1,131	1,680	4,201	10,042	10,794	24,866	28,221	39,586	67,072	98,226
	Wages.....\$1,000..	611,683	1,814	3,230	8,476	20,204	21,553	51,273	57,133	82,624	143,555	221,817
	Value added by mfg....do....	1,394,886	5,413	8,613	18,952	45,469	49,694	118,198	132,932	180,022	335,201	500,389
	Cost of materials.....do....	947,651	3,093	4,882	9,961	25,501	28,081	82,196	118,490	104,786	197,842	372,816
	Value of shipments.....do....	2,342,536	8,506	13,495	28,914	70,970	77,775	200,394	251,422	284,808	533,043	873,205
	Capital expenditures....do....	31,750	600	560	1,284	1,968	2,201	2,897	4,530	4,063	7,304	6,341
	Horsepower.....1,000 hp..	520	20	2	5	22	19	39	41	78	151	143
	Electricity used..mil. kwh..	782	29	3	6	15	17	50	60	111	208	283
3731	<u>Ship building and repairing:</u>											
	Number of establishments....	355	44	28	38	60	48	65	30	19	14	9
	Total employees.....	109,451	104	194	553	1,947	3,291	10,556	10,775	13,861	21,655	46,512
	Total payroll.....\$1,000..	504,470	313	673	2,157	8,028	14,284	44,232	47,950	65,204	101,015	220,613
	Production workers:											
	Number.....	96,196	89	166	477	1,713	2,886	9,396	9,593	11,665	18,615	41,593
	Man-hours.....1,000..	187,982	169	319	959	3,339	5,985	18,501	18,891	23,298	36,158	80,360
	Wages.....\$1,000..	421,791	251	543	1,726	6,397	11,288	36,936	39,773	52,276	81,006	191,592
	Value added by mfg....do....	691,908	514	1,031	3,181	12,054	22,195	62,605	63,477	85,313	156,605	284,930
	Cost of materials.....do....	385,980	399	656	1,971	7,176	9,466	30,325	36,597	51,353	90,346	157,688
	Value of shipments.....do....	1,077,889	914	1,688	5,152	19,231	31,662	92,931	100,074	136,666	246,951	442,619
	Capital expenditures....do....	19,316	(1)	(1)	(1)	611	722	2,237	1,626	4,794	3,586	5,544
	Horsepower.....1,000 hp..	886	55	2	3	12	15	58	55	139	215	332
	Electricity used..mil. kwh..	645	39	1	2	4	12	39	53	93	139	263
3732	<u>Boat building and repairing:</u>											
	Number of establishments....	1,154	644	186	135	128	31	25	3	2	...	...
	Total employees.....	16,900	1,491	1,296	1,927	3,865	2,206	3,900	2,212	(D)	...	...
	Total payroll.....\$1,000..	57,599	3,731	4,038	6,375	13,784	7,933	14,091	7,644	(D)	...	...
	Production workers:											
	Number.....	14,709	1,280	1,126	1,647	3,344	1,926	3,504	1,879	(D)	...	...
	Man-hours.....1,000..	28,630	2,471	2,316	3,204	6,463	3,663	6,966	3,542	(D)	...	...
	Wages.....\$1,000..	47,112	3,042	3,296	5,174	10,981	6,505	11,869	6,242	(D)	...	...
	Value added by mfg....do....	84,507	6,504	6,025	8,769	19,454	10,054	22,309	11,390	(D)	...	...
	Cost of materials.....do....	69,861	6,328	5,250	6,589	12,433	8,701	20,831	9,727	(D)	...	...
	Value of shipments.....do....	154,369	12,833	11,276	15,359	31,888	18,756	43,140	21,117	(D)	...	...
	Capital expenditures....do....	4,804	768	(1)	603	890	488	988	567	(D)	...	...
	Horsepower.....1,000 hp..	41	1	2	5	14	8	9	2	(D)	...	...
	Electricity used..mil. kwh..	48	4	4	6	10	6	13	2	(D)	...	...
3741	<u>Locomotives and parts:</u>											
	Number of establishments....	29	2	2	2	6	3	5	1	3	2	3
	Total employees.....	20,891	49	(D)	(D)	161	182	870	6,269	(D)	(D)	13,358
	Total payroll.....\$1,000..	104,274	220	(D)	(D)	538	725	4,235	32,893	(D)	(D)	65,661
	Production workers:											
	Number.....	15,968	38	(D)	(D)	119	131	715	4,992	(D)	(D)	9,970
	Man-hours.....1,000..	31,439	68	(D)	(D)	222	141	1,539	9,718	(D)	(D)	19,746
	Wages.....\$1,000..	70,575	132	(D)	(D)	313	290	3,246	22,336	(D)	(D)	44,253
	Value added by mfg....do....	188,322	324	(D)	(D)	725	1,199	5,999	55,152	(D)	(D)	124,921
	Cost of materials.....do....	239,959	370	(D)	(D)	658	607	6,618	60,651	(D)	(D)	171,051
	Value of shipments.....do....	428,281	696	(D)	(D)	1,383	1,806	12,617	115,803	(D)	(D)	295,973
	Capital expenditures....do....	6,370	(1)	...	(D)	(1)	...	1,456	3,319	(D)	(D)	1,564
	Horsepower.....1,000 hp..	182	(2)	(D)	(D)	1	1	4	37	(D)	(D)	139
	Electricity used..mil. kwh..	222	(3)	(D)	(D)	1	1	1	66	(D)	(D)	153

See footnotes at end of table.

MANUFACTURES—SUMMARY STATISTICS

Table 1.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR MAJOR INDUSTRY GROUPS AND INDUSTRIES: 1954—Con.

Code	Industry group, industry, and item	Total, all estab- lish- ments	Establishments with an average of—									
			1-4 em- ployees	5-9 em- ployees	10-19 em- ployees	20-49 em- ployees	50-99 em- ployees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
3742	<u>Railroad and street cars:</u>											
	Number of establishments....	57	9	4	4	7	5	4	3	13	5	3
	Total employees.....	30,683	19	22	61	246	409	678	1,291	8,937	19,017	(D)
	Total payroll.....\$1,000..	139,261	60	124	249	1,072	1,691	2,896	5,393	40,068	87,705	(D)
	Production workers:											
	Number.....	23,828	15	18	49	201	309	460	1,053	7,220	14,500	(D)
	Man-hours.....1,000..	44,969	29	37	90	347	551	919	2,097	13,541	27,354	(D)
	Wages.....\$1,000..	102,457	38	78	183	679	1,119	1,822	2,733	29,952	65,848	(D)
	Value added by mfg....do....	215,224	78	187	557	1,971	2,938	5,662	9,230	66,388	128,216	(D)
	Cost of materials.....do....	280,542	154	188	522	2,481	3,149	5,791	10,354	90,839	167,061	(D)
	Value of shipments.....do....	495,767	233	376	1,074	4,452	6,087	11,454	19,584	157,227	295,278	(D)
	Capital expenditures....do....	19,074	(1)	(1)	(1)	(1)	(1)	(1)	(1)	7,376	10,783	(D)
	Horsepower.....1,000 hp..	261	3	(2)	(2)	2	2	6	14	97	137	(D)
	Electricity used..mil. kwh..	192	3	(3)	(3)	1	2	3	4	49	130	(D)
3751	<u>Motorcycles and bicycles:</u>											
	Number of establishments....	46	12	4	1	9	5	5	6	3	1	...
	Total employees.....	7,061	27	30	11	333	346	676	2,118	3,517	(D)	...
	Total payroll.....\$1,000..	28,060	60	96	33	1,188	1,392	2,147	8,490	14,651	(D)	...
	Production workers:											
	Number.....	5,979	23	27	9	275	298	606	1,764	2,973	(D)	...
	Man-hours.....1,000..	11,121	43	56	18	432	628	1,066	3,355	5,519	(D)	...
	Wages.....\$1,000..	21,639	51	84	28	726	1,089	1,704	6,372	11,581	(D)	...
	Value added by mfg....do....	41,819	130	183	64	1,588	2,143	3,304	13,301	21,105	(D)	...
	Cost of materials.....do....	53,830	202	157	65	2,397	3,195	5,064	18,283	24,465	(D)	...
	Value of shipments.....do....	95,649	332	340	129	3,985	5,339	8,368	31,584	45,570	(D)	...
	Capital expenditures....do....	1,476	(1)	(1)	(1)	(1)	(1)	(1)	(1)	901	(D)	...
	Horsepower.....1,000 hp..	31	(2)	(2)	...	1	1	1	9	19	(D)	...
	Electricity used..mil. kwh..	35	(3)	(3)	(3)	1	1	2	12	19	(D)	...
3799	<u>Transportation equipment, nec:</u>											
	Number of establishments....	108	51	15	19	19	2	2	...	...	...	...
	Total employees.....	1,636	126	112	284	619	493	(D)	...	...	...	...
	Total payroll.....\$1,000..	5,637	305	355	862	2,182	1,932	(D)	...	...	...	...
	Production workers:											
	Number.....	1,359	106	89	233	517	412	(D)	...	...	...	...
	Man-hours.....1,000..	2,786	202	194	462	1,072	855	(D)	...	...	...	...
	Wages.....\$1,000..	4,135	246	237	652	1,625	1,375	(D)	...	...	...	...
	Value added by mfg....do....	9,938	573	476	1,584	3,681	3,622	(D)	...	...	...	...
	Cost of materials.....do....	11,724	796	786	1,578	4,295	4,266	(D)	...	...	...	...
	Value of shipments.....do....	21,662	1,370	1,263	3,162	7,977	7,889	(D)	...	...	...	...
	Capital expenditures....do....	561	(1)	(1)	(1)	(1)	189	(D)	...	...	...	...
	Horsepower.....1,000 hp..	6	(2)	1	1	2	2	(D)	...	...	...	...
	Electricity used..mil. kwh..	4	(3)	(3)	1	1	2	(D)	...	...	...	...
38	<u>Instruments and related products:</u>											
	Number of establishments....	3,142	1,198	534	425	379	231	185	84	56	33	17
	Total employees.....	272,586	2,950	3,751	6,145	12,022	16,204	28,704	29,275	41,096	49,802	82,606
	Total payroll.....\$1,000..	1,200,322	8,668	13,511	23,360	47,605	66,625	115,313	125,775	175,389	227,777	396,271
	Production workers:											
	Number.....	195,597	2,220	2,857	4,711	9,276	12,256	22,072	21,494	29,124	34,939	56,510
	Man-hours.....1,000..	391,403	4,170	5,517	9,037	18,117	24,580	44,077	42,775	59,998	71,151	111,948
	Wages.....\$1,000..	759,459	5,874	9,072	15,324	29,797	41,761	74,780	78,907	114,337	144,139	245,433
	Value added by mfg....do....	2,128,706	20,962	24,975	40,476	82,951	108,614	204,245	229,528	291,719	385,495	739,721
	Cost of materials.....do....	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)
	Value of shipments.....do....	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)
	Capital expenditures....do....	94,008	1,323	1,587	1,529	3,498	4,494	5,956	9,875	15,943	14,953	34,815
	Horsepower.....1,000 hp..	1,161	7	1	7	14	19	40	51	72	201	749
	Electricity used..mil. kwh..	996	29	8	15	25	41	69	76	129	167	437
3811	<u>Scientific instruments:</u>											
	Number of establishments....	370	127	66	46	45	31	25	17	3	5	5
	Total employees.....	45,315	307	466	711	1,422	2,121	3,987	6,053	2,418	6,927	20,899
	Total payroll.....\$1,000..	217,831	1,046	1,768	2,832	6,378	9,814	18,463	26,548	11,322	33,330	106,325
	Production workers:											
	Number.....	30,797	223	346	542	1,039	1,567	2,923	4,187	1,121	5,132	13,713
	Man-hours.....1,000..	64,264	437	720	1,029	2,119	3,239	5,968	8,534	2,210	11,228	28,775
	Wages.....\$1,000..	134,801	661	1,145	1,822	3,714	6,151	11,625	16,291	4,068	23,973	65,347
	Value added by mfg....do....	356,713	2,448	3,186	4,566	9,984	16,782	35,301	42,781	11,498	60,930	169,233
	Cost of materials.....do....	224,203	1,536	1,871	2,552	6,418	8,348	15,181	22,307	11,267	42,938	111,782
	Value of shipments.....do....	580,916	3,985	5,057	7,119	16,403	25,131	50,482	65,089	22,765	103,868	281,015
	Capital expenditures....do....	8,615	(1)	(1)	(1)	551	568	962	1,294	673	1,678	2,088
	Horsepower.....1,000 hp..	83	2	(2)	1	1	2	3	14	4	4	52
	Electricity used..mil. kwh..	112	4	1	2	3	4	8	13	5	14	58

See footnotes at end of table.

SIZE OF ESTABLISHMENTS

203-89

Table 1.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR MAJOR INDUSTRY GROUPS AND INDUSTRIES: 1954—Con.

Code	Industry group, industry, and item	Total, all estab- lish- ments	Establishments with an average of—									
			1-4 em- ployees	5-9 em- ployees	10-19 em- ployees	20-49 em- ployees	50-99 em- ployees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
3821	<u>Mechanical measuring instruments:</u>											
	Number of establishments....	614	205	100	86	78	43	43	23	19	14	3
	Total employees.....	69,422	515	715	1,254	2,489	3,059	6,736	8,170	14,234	32,247	(D)
	Total payroll.....\$1,000..	302,624	1,639	2,579	5,036	10,266	13,103	29,326	36,235	61,911	142,526	(D)
	Production workers:											
	Number.....	48,229	386	556	954	1,878	2,195	4,926	6,020	9,910	21,400	(D)
	Man-hours.....1,000..	97,903	708	1,017	1,815	3,690	4,533	10,103	11,990	21,045	42,998	(D)
	Wages.....\$1,000..	189,887	1,098	1,804	3,365	6,300	7,915	18,228	23,300	41,327	86,546	(D)
	Value added by mfg....do....	542,602	3,435	4,999	9,185	17,371	23,652	51,959	71,418	108,820	251,761	(D)
	Cost of materials.....do....	261,655	2,451	2,986	5,477	10,876	13,455	31,937	39,398	64,641	90,432	(D)
	Value of shipments.....do....	804,257	5,886	7,986	14,662	28,248	37,108	83,896	110,816	173,461	342,193	(D)
	Capital expenditures.....do....	21,487	(1)	603	(1)	605	1,108	1,619	2,883	6,431	7,606	(D)
	Horsepower.....1,000 hp..	238	3	(2)	2	3	3	9	20	27	171	(D)
	Electricity used..mil. kwh..	218	13	1	4	5	7	15	20	41	112	(D)
3831	<u>Optical instruments and lenses:</u>											
	Number of establishments....	205	80	40	24	28	16	9	3	3	1	1
	Total employees.....	12,658	209	295	357	893	1,106	1,539	998	7,258	(D)	(D)
	Total payroll.....\$1,000..	58,178	602	1,134	1,320	3,601	5,189	6,394	4,659	35,276	(D)	(D)
	Production workers:											
	Number.....	9,447	173	251	297	757	857	1,182	717	5,209	(D)	(D)
	Man-hours.....1,000..	18,555	325	503	571	1,536	1,676	2,501	1,582	9,856	(D)	(D)
	Wages.....\$1,000..	38,251	469	901	1,053	2,754	3,424	4,108	3,086	22,452	(D)	(D)
	Value added by mfg....do....	86,380	1,723	1,951	2,043	6,590	6,969	10,265	7,871	48,965	(D)	(D)
	Cost of materials.....do....	31,268	1,337	869	1,069	4,412	2,806	3,813	3,190	13,770	(D)	(D)
	Value of shipments.....do....	117,649	3,061	2,821	3,112	11,002	9,776	14,078	11,061	62,735	(D)	(D)
	Capital expenditures.....do....	4,555	(1)	603	(1)	603	(1)	(1)	(1)	2,786	(D)	(D)
	Horsepower.....1,000 hp..	21	1	(2)	1	1	1	3	(2)	14	(D)	(D)
	Electricity used..mil. kwh..	39	2	1	1	2	3	4	2	24	(D)	(D)
3841	<u>Surgical and medical instruments:</u>											
	Number of establishments....	208	91	39	28	23	13	10	3	...	1	...
	Total employees.....	6,562	227	275	421	786	880	1,415	2,555	...	(D)	...
	Total payroll.....\$1,000..	23,223	577	938	1,609	2,663	3,482	5,534	8,418	...	(D)	...
	Production workers:											
	Number.....	5,267	172	218	342	604	720	1,102	2,105	...	(D)	...
	Man-hours.....1,000..	11,012	335	430	649	1,109	1,469	2,142	4,876	...	(D)	...
	Wages.....\$1,000..	17,398	420	674	1,049	1,645	2,477	3,695	7,436	...	(D)	...
	Value added by mfg....do....	41,656	1,257	1,472	2,640	4,309	5,159	8,949	17,869	...	(D)	...
	Cost of materials.....do....	20,993	1,012	858	1,495	2,029	2,136	4,832	8,634	...	(D)	...
	Value of shipments.....do....	62,649	2,270	2,331	4,135	6,339	7,295	13,781	26,497	...	(D)	...
	Capital expenditures.....do....	975	(1)	(1)	(1)	(1)	(1)	(1)	(1)	...	(D)	...
	Horsepower.....1,000 hp..	8	(2)	1	1	1	1	2	2	...	(D)	...
	Electricity used..mil. kwh..	13	(3)	1	1	1	2	3	5	...	(D)	...
3842	<u>Surgical appliances and supplies:</u>											
	Number of establishments....	652	308	116	95	52	31	32	7	8	3	...
	Total employees.....	24,457	753	802	1,313	1,608	2,191	4,686	2,146	6,194	4,761	...
	Total payroll.....\$1,000..	98,035	2,028	2,714	4,466	5,762	8,220	15,786	8,273	27,080	23,704	...
	Production workers:											
	Number.....	16,737	555	592	975	1,220	1,606	3,880	1,634	3,968	2,304	...
	Man-hours.....1,000..	32,536	1,048	1,146	1,873	2,477	3,204	7,530	3,133	7,973	4,150	...
	Wages.....\$1,000..	54,890	1,338	1,713	2,882	3,487	4,616	10,993	5,382	15,987	8,490	...
	Value added by mfg....do....	179,209	4,943	4,667	7,569	9,878	13,184	32,439	21,054	52,861	32,612	...
	Cost of materials.....do....	159,239	3,052	3,011	4,472	6,552	11,316	31,346	12,555	57,863	29,070	...
	Value of shipments.....do....	338,449	7,996	7,679	12,042	16,431	24,500	63,785	33,609	110,724	61,682	...
	Capital expenditures.....do....	9,991	(1)	(1)	(1)	784	(1)	671	1,338	3,462	2,564	...
	Horsepower.....1,000 hp..	37	(2)	(2)	1	2	3	7	3	13	8	...
	Electricity used..mil. kwh..	79	1	1	2	2	5	11	5	30	22	...
3843	<u>Dental equipment and supplies:</u>											
	Number of establishments....	197	85	39	24	18	14	12	2	2	1	...
	Total employees.....	7,103	200	266	354	528	966	1,766	3,022	(D)	(D)	...
	Total payroll.....\$1,000..	28,206	541	1,070	1,320	2,167	4,023	7,049	12,035	(D)	(D)	...
	Production workers:											
	Number.....	5,107	154	190	274	399	685	1,324	2,079	(D)	(D)	...
	Man-hours.....1,000..	10,366	288	349	465	702	1,365	2,574	4,621	(D)	(D)	...
	Wages.....\$1,000..	17,974	367	620	716	1,167	2,169	4,277	8,655	(D)	(D)	...
	Value added by mfg....do....	51,154	1,581	2,135	2,398	4,282	6,683	10,212	23,860	(D)	(D)	...
	Cost of materials.....do....	28,016	1,344	1,596	1,820	3,287	9,327	2,890	7,750	(D)	(D)	...
	Value of shipments.....do....	79,171	2,925	3,731	4,219	7,570	16,011	13,102	31,611	(D)	(D)	...
	Capital expenditures.....do....	1,434	(1)	(1)	(1)	(1)	(1)	(1)	696	(D)	(D)	...
	Horsepower.....1,000 hp..	13	(2)	(2)	(2)	2	2	2	7	(D)	(D)	...
	Electricity used..mil. kwh..	17	1	1	1	1	3	3	7	(D)	(D)	...

See footnotes at end of table.

MANUFACTURES—SUMMARY STATISTICS

Table 1.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR MAJOR INDUSTRY GROUPS AND INDUSTRIES: 1954—Con.

Code	Industry group, industry, and item	Total, all estab- lish- ments	Establishments with an average of—									
			1-4 em- ployees	5-9 em- ployees	10-19 em- ployees	20-49 em- ployees	50-99 em- ployees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
3851	Ophthalmic goods:											
	Number of establishments....	238	67	36	34	41	34	18	3	3	...	2
	Total employees.....	18,464	151	251	494	1,340	2,356	2,874	1,158	9,837	...	(D)
	Total payroll.....\$1,000..	64,536	480	815	1,666	4,105	7,627	9,125	3,482	37,234	...	(D)
	Production workers:											
	Number.....	15,355	107	187	375	1,105	1,926	2,482	957	8,213	...	(D)
	Man-hours.....1,000..	29,960	197	362	771	2,014	3,733	4,657	1,752	16,472	...	(D)
	Wages.....\$1,000..	48,332	281	527	1,096	2,837	5,113	6,730	2,473	29,273	...	(D)
	Value added by mfg....do....	110,452	1,012	1,639	3,301	6,757	12,176	14,927	5,878	64,758	...	(D)
	Cost of materials.....do....	47,486	670	1,430	2,622	4,789	7,746	9,633	2,390	18,201	...	(D)
	Value of shipments.....do....	157,939	1,682	3,070	5,924	11,547	19,925	24,561	8,268	82,960	...	(D)
	Capital expenditures..do....	5,042	(1)	(1)	(1)	(1)	(1)	534	831	2,778	...	(D)
	Horsepower.....1,000 hp..	527	(2)	(2)	(2)	1	3	5	2	516	...	(D)
	Electricity used..mil. kwh..	61	1	1	1	2	6	8	3	39	...	(D)
3861	Photographic equipment:											
	Number of establishments....	449	169	71	59	62	32	24	15	9	4	4
	Total employees.....	59,099	413	495	821	1,923	2,388	3,856	5,267	6,187	37,746	(D)
	Total payroll.....\$1,000..	288,497	1,227	1,797	3,383	8,557	10,432	16,157	23,227	27,577	196,137	(D)
	Production workers:											
	Number.....	41,063	307	363	617	1,416	1,773	2,679	3,851	4,498	25,556	(D)
	Man-hours.....1,000..	81,066	563	694	1,217	2,862	3,694	5,330	7,633	9,119	49,951	(D)
	Wages.....\$1,000..	177,117	857	1,206	2,220	5,129	6,560	9,264	15,148	18,305	118,425	(D)
	Value added by mfg....do....	561,240	3,329	3,382	5,733	16,991	16,677	30,923	39,642	40,402	404,156	(D)
	Cost of materials.....do....	306,357	2,351	2,629	4,061	13,904	17,198	25,764	28,617	38,307	173,523	(D)
	Value of shipments.....do....	867,597	5,681	6,012	9,794	30,898	33,875	56,687	68,259	78,709	577,679	(D)
	Capital expenditures..do....	37,924	(1)	(1)	(1)	593	869	1,328	2,446	1,306	30,698	(D)
	Horsepower.....1,000 hp..	197	1	(2)	1	2	3	6	7	12	165	(D)
	Electricity used..mil. kwh..	398	2	1	2	6	9	12	21	25	320	(D)
3871	Watches and clocks:											
	Number of establishments....	145	54	17	15	21	8	7	9	8	4	2
	Total employees.....	25,708	147	120	227	656	512	1,011	3,397	5,440	14,195	(D)
	Total payroll.....\$1,000..	103,232	445	393	841	2,553	1,955	3,759	15,456	21,286	56,542	(D)
	Production workers:											
	Number.....	20,282	122	107	180	522	386	841	2,445	4,370	11,307	(D)
	Man-hours.....1,000..	39,125	225	199	330	955	693	1,750	4,725	8,548	21,698	(D)
	Wages.....\$1,000..	67,962	320	301	547	1,536	1,199	2,676	7,503	14,728	39,149	(D)
	Value added by mfg....do....	179,069	1,047	948	1,831	4,708	3,561	4,242	29,781	35,457	97,491	(D)
	Cost of materials.....do....	150,974	1,265	1,216	3,416	5,001	3,996	2,990	42,538	24,303	66,245	(D)
	Value of shipments.....do....	330,043	2,313	2,164	5,248	9,710	7,558	7,232	72,319	59,760	163,736	(D)
	Capital expenditures..do....	3,511	(1)	(1)	(1)	(1)	(1)	(1)	598	1,144	1,440	(D)
	Horsepower.....1,000 hp..	31	(2)	(2)	(2)	(2)	(2)	1	2	7	21	(D)
	Electricity used..mil. kwh..	49	5	(3)	1	2	1	3	5	13	19	(D)
3872	Watchcases:											
	Number of establishments....	64	12	10	14	11	9	5	2	1	...	...
	Total employees.....	3,795	28	66	193	377	625	834	1,670	(D)	...	...
	Total payroll.....\$1,000..	15,957	83	303	887	1,553	2,780	3,720	6,629	(D)	...	...
	Production workers:											
	Number.....	3,308	21	47	155	336	541	733	1,471	(D)	...	...
	Man-hours.....1,000..	6,612	44	97	317	653	974	1,522	3,003	(D)	...	...
	Wages.....\$1,000..	12,841	63	181	574	1,228	2,137	3,184	5,472	(D)	...	...
	Value added by mfg....do....	20,231	178	596	1,210	2,081	3,771	5,028	7,365	(D)	...	...
	Cost of materials.....do....	14,760	272	568	1,019	1,456	3,670	3,463	4,310	(D)	...	...
	Value of shipments.....do....	34,991	451	1,165	2,229	3,537	7,441	8,491	11,676	(D)	...	...
	Capital expenditures..do....	469	(1)	(1)	(1)	(1)	(1)	(1)	254	(D)	...	...
	Horsepower.....1,000 hp..	6	...	(2)	(2)	1	1	2	(D)	...	...	...
	Electricity used..mil. kwh..	10	(3)	(3)	(3)	1	1	3	2	(D)	...	...
39	Miscellaneous Manufactures: 7											
	Number of establishments....	17,010	7,098	2,780	2,464	2,438	1,103	667	249	125	59	27
	Total employees.....	695,917	17,021	19,797	34,957	77,182	76,393	102,194	87,045	85,084	86,281	109,851
	Total payroll.....\$1,000..	2,658,182	42,828	60,633	110,818	251,668	264,098	369,665	336,974	345,665	356,775	518,955
	Production workers:											
	Number.....	555,746	13,924	16,289	28,986	64,962	63,839	85,867	70,363	68,329	66,651	76,398
	Man-hours.....1,000..	1,089,229	25,574	30,760	54,365	123,774	124,367	170,068	139,592	136,915	132,585	151,089
	Wages.....\$1,000..	1,861,873	31,037	44,041	78,697	177,085	184,077	266,595	239,050	249,788	250,571	340,796
	Value added by mfg....do....	4,473,050	99,645	111,681	190,699	424,178	429,826	607,987	568,750	574,946	630,385	834,834
	Cost of materials.....do....	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)
	Value of shipments.....do....	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)
	Capital expenditures..do....	176,036	6,617	4,523	7,141	17,836	17,012	21,180	22,568	32,082	21,769	25,165
	Horsepower.....1,000 hp..	2,306	84	12	42	144	162	305	393	438	304	422
	Electricity used..mil. kwh..	3,354	170	72	123	253	297	445	494	554	359	587

See footnotes at end of table.

SIZE OF ESTABLISHMENTS

203-91

Table 1.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR MAJOR INDUSTRY GROUPS AND INDUSTRIES: 1954—Con.

Code	Industry group, industry, and item	Total, all estab- lish- ments	Establishments with an average of—									
			1-4 em- ployees	5-9 em- ployees	10-19 em- ployees	20-49 em- ployees	50-99 em- ployees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
3911	Jewelry (precious metal):											
	Number of establishments....	1,327	733	252	138	122	47	21	9	4	1	...
	Total employees.....	23,455	1,738	1,790	1,919	3,912	3,247	3,168	3,372	4,305	(D)	...
	Total payroll.....\$1,000..	90,373	4,889	6,302	7,738	15,495	11,780	12,910	13,745	17,512	(D)	...
	Production workers:											
	Number.....	18,440	1,440	1,461	1,531	3,090	2,660	2,517	2,595	3,142	(D)	...
	Man-hours.....1,000..	36,438	2,807	2,853	2,978	5,690	5,389	4,888	5,014	6,816	(D)	...
	Wages.....\$1,000..	58,382	3,721	4,592	5,343	9,935	7,825	8,083	8,862	10,020	(D)	...
	Value added by mfg....do....	145,567	11,531	11,692	13,560	23,309	17,785	20,370	22,810	24,507	(D)	...
	Cost of materials.....do....	112,580	14,220	13,135	12,677	20,804	12,851	18,388	10,101	10,401	(D)	...
	Value of shipments.....do....	258,147	25,751	24,828	26,238	44,114	30,636	38,758	32,912	34,908	(D)	...
	Capital expenditures..do....	1,836	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(D)	...
	Horsepower.....1,000 hp..	14	(2)	1	1	2	2	2	2	4	(D)	...
	Electricity used..mil. kwh..	30	3	4	5	4	3	4	3	4	(D)	...
3912	Jewelers' findings:											
	Number of establishments....	234	78	53	42	38	16	5	1	1	...	...
	Total employees.....	5,371	185	381	619	1,249	1,201	1,734	(D)	(D)	...	...
	Total payroll.....\$1,000..	18,911	427	1,019	1,912	3,969	4,111	7,471	(D)	(D)	...	...
	Production workers:											
	Number.....	4,542	160	328	530	1,108	1,018	1,395	(D)	(D)	...	...
	Man-hours.....1,000..	9,281	293	643	1,048	2,204	2,020	3,070	(D)	(D)	...	...
	Wages.....\$1,000..	13,414	337	810	1,432	3,009	2,739	5,083	(D)	(D)	...	...
	Value added by mfg....do....	31,369	997	1,909	3,053	6,129	5,933	13,346	(D)	(D)	...	...
	Cost of materials.....do....	37,955	1,031	1,698	6,052	5,311	5,601	18,261	(D)	(D)	...	...
	Value of shipments.....do....	69,325	2,029	3,608	9,105	11,440	11,534	31,607	(D)	(D)	...	...
	Capital expenditures..do....	1,558	(1)	(1)	(1)	(1)	(1)	592	(D)	(D)	...	...
	Horsepower.....1,000 hp..	11	(2)	(2)	1	2	1	7	(D)	(D)	...	...
	Electricity used..mil. kwh..	16	(3)	(3)	1	2	1	12	(D)	(D)	...	...
3913	Lapidary work:											
	Number of establishments....	333	264	32	23	11	2	1	...	...	...	...
	Total employees.....	1,759	549	222	308	378	299	(D)	...	...	...	...
	Total payroll.....\$1,000..	5,459	1,715	800	983	1,025	935	(D)	...	...	...	...
	Production workers:											
	Number.....	1,591	508	201	273	330	276	(D)	...	...	...	...
	Man-hours.....1,000..	2,757	881	362	488	553	471	(D)	...	...	...	...
	Wages.....\$1,000..	4,067	1,285	635	731	784	630	(D)	...	...	...	...
	Value added by mfg....do....	10,608	4,009	1,692	1,747	1,821	1,339	(D)	...	...	...	...
	Cost of materials.....do....	22,955	9,107	3,250	8,137	611	1,849	(D)	...	...	...	...
	Value of shipments.....do....	33,564	15,116	4,942	9,884	2,433	3,188	(D)	...	...	...	...
	Capital expenditures..do....	(1)	(1)	(1)	(1)	(1)	(1)	(D)	...	...	...	...
	Horsepower.....1,000 hp..	(2)	(2)	(2)	(2)	(2)	(2)	(D)	...	...	...	...
	Electricity used..mil. kwh..	2	1	(3)	1	(3)	(3)	(D)	...	...	...	...
3914	Silverware and plated ware:											
	Number of establishments....	207	61	18	31	39	28	16	6	5	2	1
	Total employees.....	17,345	148	134	469	1,333	1,962	2,327	1,990	3,880	5,099	(D)
	Total payroll.....\$1,000..	68,064	373	423	1,686	4,967	7,888	8,715	7,678	15,328	21,004	(D)
	Production workers:											
	Number.....	14,375	122	116	386	1,116	1,560	1,944	1,642	3,118	4,373	(D)
	Man-hours.....1,000..	28,957	232	251	768	2,166	3,162	3,955	3,409	6,358	8,652	(D)
	Wages.....\$1,000..	53,876	306	371	1,274	3,760	5,765	6,620	5,955	11,986	17,835	(D)
	Value added by mfg....do....	110,034	873	686	2,540	7,680	10,671	15,274	12,746	24,667	34,893	(D)
	Cost of materials.....do....	101,049	882	756	2,184	5,791	5,821	11,616	13,588	31,548	28,860	(D)
	Value of shipments.....do....	211,083	1,756	1,443	4,725	13,472	16,493	26,890	26,334	56,216	63,753	(D)
	Capital expenditures..do....	3,826	(1)	(1)	(1)	(1)	1,732	(1)	(1)	(1)	865	(D)
	Horsepower.....1,000 hp..	71	(2)	(2)	1	4	6	11	5	18	26	(D)
	Electricity used..mil. kwh..	86	1	(3)	1	4	9	11	5	18	37	(D)
3931	Pianos:											
	Number of establishments....	27	...	2	1	5	8	2	7	1	1	...
	Total employees.....	5,759	...	26	(D)	169	890	(D)	4,672	(D)	(D)	...
	Total payroll.....\$1,000..	24,079	...	92	(D)	594	3,543	(D)	19,848	(D)	(D)	...
	Production workers:											
	Number.....	4,945	...	13	(D)	143	797	(D)	3,990	(D)	(D)	...
	Man-hours.....1,000..	9,508	...	26	(D)	275	1,564	(D)	7,641	(D)	(D)	...
	Wages.....\$1,000..	18,596	...	51	(D)	506	3,000	(D)	15,037	(D)	(D)	...
	Value added by mfg....do....	32,436	...	161	(D)	929	5,305	(D)	26,040	(D)	(D)	...
	Cost of materials.....do....	32,287	...	300	(D)	1,354	5,943	(D)	24,687	(D)	(D)	...
	Value of shipments.....do....	64,723	...	462	(D)	2,284	11,248	(D)	50,727	(D)	(D)	...
	Capital expenditures..do....	513	...	(1)	(D)	(1)	57	(D)	(1)	(D)	(D)	...
	Horsepower.....1,000 hp..	14	...	(2)	(D)	(2)	3	(D)	11	(D)	(D)	...
	Electricity used..mil. kwh..	17	...	(3)	(D)	1	2	(D)	14	(D)	(D)	...

See footnotes at end of table.

Table 1.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR MAJOR INDUSTRY GROUPS AND INDUSTRIES: 1954—Con.

Code	Industry group, industry, and item	Total, all estab- lish- ments	Establishments with an average of—									
			1-4 em- ployees	5-9 em- ployees	10-19 em- ployees	20-49 em- ployees	50-99 em- ployees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
3932	Organs:											
	Number of establishments....	31	7	7	2	4	4	6	1	...	...	...
	Total employees.....	1,762	23	75	(D)	114	315	1,234	(D)	...	...	...
	Total payroll.....\$1,000..	6,579	64	228	(D)	471	1,315	4,500	(D)	...	...	...
	Production workers:											
	Number.....	1,521	19	62	(D)	104	261	1,073	(D)	...	...	...
	Man-hours.....1,000..	3,151	40	125	(D)	219	590	2,177	(D)	...	...	...
	Wages.....\$1,000..	5,264	52	173	(D)	415	1,020	3,603	(D)	...	...	...
	Value added by mfg....do....	8,664	120	299	(D)	746	1,290	6,206	(D)	...	...	...
	Cost of materials.....do....	20,281	176	140	(D)	296	3,661	16,006	(D)	...	...	...
	Value of shipments.....do....	28,945	296	441	(D)	1,043	4,952	22,212	(D)	...	...	...
	Capital expenditures..do....	(1)	(1)	(1)	(D)	(1)	(1)	(1)	(D)	...	...	...
	Horsepower.....1,000 hp..	2	...	(2)	(D)	(2)	(2)	2	(D)	...	...	...
	Electricity used..mil. kwh..	2	(3)	(3)	(D)	(3)	(3)	2	(D)	...	...	...
3933	Piano and organ parts:											
	Number of establishments....	40	10	4	6	8	3	6	1	2	...	...
	Total employees.....	3,032	29	32	77	248	228	891	1,526	(D)	...	...
	Total payroll.....\$1,000..	11,613	83	121	282	916	754	3,518	5,938	(D)	...	...
	Production workers:											
	Number.....	2,743	26	29	63	215	181	794	1,434	(D)	...	...
	Man-hours.....1,000..	5,703	51	61	136	428	406	1,608	3,012	(D)	...	...
	Wages.....\$1,000..	9,896	70	114	218	683	566	2,768	5,476	(D)	...	...
	Value added by mfg....do....	25,239	168	168	600	1,425	882	6,752	15,242	(D)	...	...
	Cost of materials.....do....	10,234	123	30	301	828	784	3,227	4,940	(D)	...	...
	Value of shipments.....do....	35,474	291	199	902	2,253	1,666	9,979	20,182	(D)	...	...
	Capital expenditures..do....	542	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(D)	...	...
	Horsepower.....1,000 hp..	9	...	(2)	(2)	(2)	(2)	5	4	(D)	...	...
	Electricity used..mil. kwh..	10	(3)	(3)	(3)	1	1	4	4	(D)	...	...
3939	Musical instruments, nec:											
	Number of establishments....	144	52	22	18	25	14	10	2	1	...	...
	Total employees.....	4,853	136	161	256	754	927	1,476	1,142	(D)	...	...
	Total payroll.....\$1,000..	18,947	331	511	737	2,840	3,130	6,292	5,105	(D)	...	...
	Production workers:											
	Number.....	4,020	111	138	221	682	796	1,243	827	(D)	...	...
	Man-hours.....1,000..	7,965	197	268	425	1,330	1,581	2,545	1,617	(D)	...	...
	Wages.....\$1,000..	14,484	247	440	621	2,281	2,387	4,821	3,686	(D)	...	...
	Value added by mfg....do....	26,731	751	710	1,370	4,196	5,053	8,604	6,044	(D)	...	...
	Cost of materials.....do....	13,483	724	594	1,138	1,862	3,239	3,508	2,415	(D)	...	...
	Value of shipments.....do....	40,215	1,476	1,305	2,509	6,059	8,293	12,112	8,460	(D)	...	...
	Capital expenditures..do....	704	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(D)	...	...
	Horsepower.....1,000 hp..	10	(2)	(2)	(2)	1	2	3	4	(D)	...	...
	Electricity used..mil. kwh..	12	(3)	1	1	2	2	3	2	(D)	...	...
3941	Games and toys, nec:											
	Number of establishments....	886	320	123	135	145	80	54	19	8	2	...
	Total employees.....	38,242	710	916	1,933	4,647	5,519	8,335	6,430	9,748	(D)	...
	Total payroll.....\$1,000..	113,208	1,533	2,173	4,971	11,969	16,233	24,315	20,308	31,704	(D)	...
	Production workers:											
	Number.....	32,789	516	732	1,543	3,957	4,609	7,242	5,606	8,580	(D)	...
	Man-hours.....1,000..	60,813	827	1,200	2,672	7,055	8,676	13,891	10,474	16,016	(D)	...
	Wages.....\$1,000..	83,227	921	1,514	3,337	8,258	11,093	17,791	14,550	25,760	(D)	...
	Value added by mfg....do....	208,484	4,211	4,705	9,578	20,774	30,687	46,125	37,417	54,984	(D)	...
	Cost of materials.....do....	174,180	5,405	4,300	8,648	21,523	29,819	39,295	30,533	34,655	(D)	...
	Value of shipments.....do....	382,665	9,617	9,005	18,226	42,297	60,507	85,420	67,951	89,639	(D)	...
	Capital expenditures..do....	8,358	(1)	(1)	(1)	904	1,608	1,653	1,552	1,835	(D)	...
	Horsepower.....1,000 hp..	61	1	1	2	4	10	11	12	20	(D)	...
	Electricity used..mil. kwh..	118	3	2	5	12	16	23	28	29	(D)	...
3942	Dolls:											
	Number of establishments....	484	155	75	89	97	41	19	7	...	1	...
	Total employees.....	15,119	378	549	1,283	3,014	2,845	2,763	4,284	...	(D)	...
	Total payroll.....\$1,000..	38,938	734	1,160	3,154	7,299	6,976	7,860	11,751	...	(D)	...
	Production workers:											
	Number.....	13,792	350	516	1,176	2,813	2,586	2,504	3,843	...	(D)	...
	Man-hours.....1,000..	24,618	584	852	2,123	5,086	4,556	4,411	7,003	...	(D)	...
	Wages.....\$1,000..	30,657	591	1,012	2,567	6,039	5,334	6,029	9,081	...	(D)	...
	Value added by mfg....do....	66,289	1,895	2,060	5,130	12,897	11,008	13,185	20,111	...	(D)	...
	Cost of materials.....do....	76,442	2,438	2,232	6,871	16,286	16,077	15,494	17,043	...	(D)	...
	Value of shipments.....do....	142,732	4,334	4,292	12,002	29,183	27,086	28,679	37,154	...	(D)	...
	Capital expenditures..do....	2,247	(1)	(1)	(1)	1,055	(1)	(1)	(1)	...	(D)	...
	Horsepower.....1,000 hp..	10	(2)	(2)	1	2	4	1	2	...	(D)	...
	Electricity used..mil. kwh..	58	2	2	5	13	8	18	10	...	(D)	...

See footnotes at end of table.

SIZE OF ESTABLISHMENTS

203-93

Table 1.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR MAJOR INDUSTRY GROUPS AND INDUSTRIES: 1954—Con.

Code	Industry group, industry, and item	Total, all estab- lish- ments	Establishments with an average of—									
			1-4 em- ployees	5-9 em- ployees	10-19 em- ployees	20-49 em- ployees	50-99 em- ployees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
3943	Children's vehicles:											
	Number of establishments....	60	14	3	6	12	6	12	5	1	1	...
	Total employees.....	6,278	32	24	87	383	433	1,869	3,447	(D)	(D)	...
	Total payroll.....\$1,000..	24,308	67	82	241	1,265	1,600	7,107	13,944	(D)	(D)	...
	Production workers:											
	Number.....	5,454	24	23	83	317	364	1,561	3,080	(D)	(D)	...
	Man-hours.....1,000..	10,553	48	40	145	625	695	2,928	6,069	(D)	(D)	...
	Wages.....\$1,000..	19,354	49	73	231	901	1,255	5,070	11,773	(D)	(D)	...
	Value added by mfg....do....	36,499	184	141	310	1,901	2,962	10,293	20,705	(D)	(D)	...
	Cost of materials.....do....	40,150	202	182	222	2,790	4,339	10,465	21,947	(D)	(D)	...
	Value of shipments.....do....	76,650	387	324	533	4,692	7,301	20,758	42,653	(D)	(D)	...
	Capital expenditures..do....	1,325	(1)	...	...	(1)	(1)	(1)	843	(D)	(D)	...
	Horsepower.....1,000 hp..	17	(2)	(2)	(2)	1	1	5	10	(D)	(D)	...
	Electricity used..mil. kwh..	23	(3)	(3)	(3)	1	1	5	16	(D)	(D)	...
3949	Sporting and athletic goods:											
	Number of establishments....	1,031	476	155	146	133	66	36	13	3	3	...
	Total employees.....	28,919	1,066	1,092	2,023	4,332	4,625	5,422	4,815	1,864	3,677	...
	Total payroll.....\$1,000..	89,681	2,144	2,920	5,601	12,146	13,378	17,181	17,236	5,922	13,151	...
	Production workers:											
	Number.....	24,439	944	936	1,759	3,765	4,052	4,689	3,834	1,553	2,904	...
	Man-hours.....1,000..	46,101	1,665	1,754	3,141	6,956	7,507	9,179	7,527	2,852	5,517	...
	Wages.....\$1,000..	66,087	1,700	2,222	4,196	9,135	10,285	13,356	11,400	4,421	9,369	...
	Value added by mfg....do....	158,153	4,629	5,802	10,070	21,088	22,959	30,681	32,487	9,576	20,858	...
	Cost of materials.....do....	135,582	4,571	5,670	9,389	21,141	20,886	30,201	18,201	6,990	18,528	...
	Value of shipments.....do....	293,735	9,201	11,473	19,459	42,227	43,846	60,883	50,689	16,566	39,386	...
	Capital expenditures..do....	5,662	(1)	(1)	(1)	715	697	893	1,322	(1)	793	...
	Horsepower.....1,000 hp..	57	(2)	1	2	7	8	7	14	5	13	...
	Electricity used..mil. kwh..	91	4	8	6	10	12	11	21	5	14	...
3951	Pens and mechanical pencils:											
	Number of establishments....	140	39	19	21	26	14	11	5	3	2	...
	Total employees.....	10,879	106	138	319	801	943	1,720	1,610	5,240	(D)	...
	Total payroll.....\$1,000..	44,123	266	346	871	2,312	2,745	5,593	6,108	25,880	(D)	...
	Production workers:											
	Number.....	8,089	84	103	257	674	845	1,458	928	3,737	(D)	...
	Man-hours.....1,000..	16,428	152	184	442	1,316	1,742	3,028	2,079	7,475	(D)	...
	Wages.....\$1,000..	25,191	191	222	591	1,641	2,161	3,746	3,079	13,557	(D)	...
	Value added by mfg....do....	83,793	574	701	1,744	4,199	4,754	9,192	10,235	52,391	(D)	...
	Cost of materials.....do....	44,746	498	683	1,433	3,592	4,779	7,339	6,312	20,106	(D)	...
	Value of shipments.....do....	128,540	1,073	1,385	3,178	7,792	9,534	16,531	16,548	72,497	(D)	...
	Capital expenditures..do....	3,054	(1)	(1)	(1)	(1)	(1)	(1)	(1)	1,984	(D)	...
	Horsepower.....1,000 hp..	15	(2)	(2)	(2)	1	1	2	1	10	(D)	...
	Electricity used..mil. kwh..	34	(3)	(3)	1	2	3	3	4	21	(D)	...
3952	Lead pencils and crayons:											
	Number of establishments....	60	13	4	9	10	11	7	5	1	...	...
	Total employees.....	5,029	20	31	127	304	800	1,033	2,711	(D)	...	...
	Total payroll.....\$1,000..	17,135	37	103	334	805	2,512	3,134	10,207	(D)	...	...
	Production workers:											
	Number.....	3,794	15	21	101	258	624	820	1,952	(D)	...	...
	Man-hours.....1,000..	7,775	30	30	199	497	1,257	1,722	4,037	(D)	...	...
	Wages.....\$1,000..	10,802	28	55	231	591	1,623	1,980	6,292	(D)	...	...
	Value added by mfg....do....	29,224	90	122	635	1,318	5,515	5,763	15,779	(D)	...	...
	Cost of materials.....do....	25,667	88	60	905	1,483	3,984	4,552	14,594	(D)	...	...
	Value of shipments.....do....	54,892	179	182	1,540	2,802	9,499	10,315	30,373	(D)	...	...
	Capital expenditures..do....	1,741	...	(1)	(1)	(1)	(1)	738	716	(D)	...	...
	Horsepower.....1,000 hp..	13	1	(2)	(2)	1	2	2	7	(D)	...	...
	Electricity used..mil. kwh..	20	2	(3)	(3)	1	4	4	9	(D)	...	...
3953	Hand stamps and stencils:											
	Number of establishments....	453	221	94	70	49	12	6	1	...	...	...
	Total employees.....	5,654	570	655	971	1,481	796	1,180	(D)	...	...	...
	Total payroll.....\$1,000..	21,857	1,447	2,379	3,640	6,013	3,396	4,980	(D)	...	...	...
	Production workers:											
	Number.....	4,056	418	484	675	1,011	546	919	(D)	...	...	...
	Man-hours.....1,000..	8,123	797	997	1,360	1,978	1,193	1,795	(D)	...	...	...
	Wages.....\$1,000..	13,764	1,047	1,631	2,331	3,560	1,915	3,277	(D)	...	...	...
	Value added by mfg....do....	32,466	3,509	3,713	5,406	8,881	4,247	6,707	(D)	...	...	...
	Cost of materials.....do....	15,160	1,903	1,607	2,321	3,754	2,411	3,160	(D)	...	...	...
	Value of shipments.....do....	47,627	5,413	5,321	7,728	12,636	6,659	9,868	(D)	...	...	...
	Capital expenditures..do....	1,060	(1)	(1)	(1)	(1)	(1)	(1)	(D)	...	...	...
	Horsepower.....1,000 hp..	4	(2)	(2)	1	1	1	1	(D)	...	...	...
	Electricity used..mil. kwh..	11	1	1	2	2	2	3	(D)	...	...	...

See footnotes at end of table.

Table 1.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR MAJOR INDUSTRY GROUPS AND INDUSTRIES: 1954—Con.

Code	Industry, group, industry, and item	Total, all estab- lish- ments	Establishments with an average of—									
			1-4 em- ployees	5-9 em- ployees	10-19 em- ployees	20-49 em- ployees	50-99 em- ployees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
3954	Artists' materials:											
	Number of establishments....	95	45	14	17	12	2	4	1	...	...	...
	Total employees.....	1,913	104	100	224	369	1,114	(D)	(D)	...	...	...
	Total payroll.....\$1,000..	6,585	275	325	717	1,436	3,831	(D)	(D)	...	...	...
	Production workers:											
	Number.....	1,467	78	76	168	287	855	(D)	(D)	...	...	...
	Man-hours.....1,000..	2,875	146	144	327	515	1,741	(D)	(D)	...	...	...
	Wages.....\$1,000..	4,033	181	208	454	762	2,427	(D)	(D)	...	...	...
	Value added by mfg....do....	11,836	622	902	1,469	2,855	5,988	(D)	(D)	...	...	...
	Cost of materials.....do....	11,762	498	711	1,380	2,368	6,802	(D)	(D)	...	...	...
	Value of shipments.....do....	23,599	1,121	1,614	2,849	5,223	12,790	(D)	(D)	...	...	...
	Capital expenditures..do....	422	(1)	(1)	(1)	(1)	(1)	(D)	(D)	...	...	...
	Horsepower.....1,000 hp..	2	(2)	(2)	(2)	1	1	(D)	(D)	...	...	...
	Electricity used..mil. kwh..	4	(3)	(3)	1	1	2	(D)	(D)	...	...	...
3955	Carbon paper and inked ribbons:											
	Number of establishments....	84	18	10	13	18	9	12	4	...	...	...
	Total employees.....	4,742	44	76	194	625	632	1,809	1,360	...	...	...
	Total payroll.....\$1,000..	19,344	131	251	682	2,344	2,606	7,361	5,968	...	...	...
	Production workers:											
	Number.....	3,255	34	58	139	490	445	1,167	921	...	...	...
	Man-hours.....1,000..	6,671	63	112	282	973	860	2,400	1,979	...	...	...
	Wages.....\$1,000..	10,757	105	175	436	1,542	1,368	3,825	3,304	...	...	...
	Value added by mfg....do....	37,758	342	507	1,334	3,778	3,946	15,681	12,168	...	...	...
	Cost of materials.....do....	43,431	361	721	1,407	6,027	5,869	15,883	13,160	...	...	...
	Value of shipments.....do....	81,190	704	1,229	2,742	9,805	9,815	31,565	25,328	...	...	...
	Capital expenditures..do....	1,120	(1)	(1)	(1)	(1)	(1)	(1)	(1)	...	...	...
	Horsepower.....1,000 hp..	9	1	(2)	(2)	2	1	3	2	...	...	...
	Electricity used..mil. kwh..	15	1	(3)	1	3	2	6	2	...	...	...
3961	Costume jewelry:											
	Number of establishments....	1,127	484	166	189	181	63	31	6	5	2	...
	Total employees.....	27,744	1,170	1,186	2,691	5,769	4,305	4,444	2,127	6,051	(D)	...
	Total payroll.....\$1,000..	79,017	2,396	2,852	6,724	15,162	13,236	13,299	5,457	19,889	(D)	...
	Production workers:											
	Number.....	24,269	979	1,016	2,327	5,098	3,758	3,905	1,931	5,252	(D)	...
	Man-hours.....1,000..	46,679	1,752	1,845	4,416	9,643	7,511	7,816	3,766	9,927	(D)	...
	Wages.....\$1,000..	58,445	1,816	2,206	5,158	11,410	9,502	9,766	4,048	14,535	(D)	...
	Value added by mfg....do....	129,239	5,888	5,305	12,260	26,410	21,790	20,194	8,109	29,280	(D)	...
	Cost of materials.....do....	110,169	5,938	5,643	12,106	24,387	23,390	15,701	7,088	15,914	(D)	...
	Value of shipments.....do....	239,409	11,827	10,949	24,367	50,797	45,181	35,895	15,198	45,194	(D)	...
	Capital expenditures..do....	3,621	(1)	(1)	(1)	(1)	572	(1)	(1)	1,823	(D)	...
	Horsepower.....1,000 hp..	13	(2)	(2)	1	3	1	3	(2)	5	(D)	...
	Electricity used..mil. kwh..	49	3	3	6	10	8	8	2	9	(D)	...
3962	Artificial flowers:											
	Number of establishments....	471	207	80	81	75	20	7	1	...	...	...
	Total employees.....	7,306	527	576	1,109	2,408	1,378	1,306	(D)	...	...	...
	Total payroll.....\$1,000..	17,299	971	1,300	2,520	5,628	3,736	3,142	(D)	...	...	...
	Production workers:											
	Number.....	6,690	487	530	1,022	2,192	1,225	1,231	(D)	...	...	...
	Man-hours.....1,000..	12,009	802	916	1,736	3,922	2,255	2,375	(D)	...	...	...
	Wages.....\$1,000..	13,446	786	1,069	1,999	4,323	2,683	2,583	(D)	...	...	...
	Value added by mfg....do....	28,952	2,724	2,537	4,755	8,867	5,526	4,541	(D)	...	...	...
	Cost of materials.....do....	21,038	2,181	2,802	3,226	6,183	3,845	2,797	(D)	...	...	...
	Value of shipments.....do....	49,990	4,906	5,340	7,982	15,051	9,371	7,338	(D)	...	...	...
	Capital expenditures..do....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(D)	...	...	...
	Horsepower.....1,000 hp..	4	(2)	(2)	(2)	2	(2)	2	(D)	...	...	...
	Electricity used..mil. kwh..	9	1	1	1	2	2	2	(D)	...	...	...
3963	Buttons:											
	Number of establishments....	409	152	71	77	71	21	16	1	...	...	...
	Total employees.....	8,471	389	513	1,052	2,265	1,363	2,886	(D)	...	...	...
	Total payroll.....\$1,000..	23,235	802	1,204	2,440	5,675	4,148	8,964	(D)	...	...	...
	Production workers:											
	Number.....	7,430	344	464	944	2,057	1,176	2,443	(D)	...	...	...
	Man-hours.....1,000..	14,123	617	846	1,680	3,859	2,312	4,807	(D)	...	...	...
	Wages.....\$1,000..	17,483	637	1,046	1,994	4,586	2,879	6,319	(D)	...	...	...
	Value added by mfg....do....	36,679	1,857	2,080	4,022	8,945	6,687	13,085	(D)	...	...	...
	Cost of materials.....do....	28,089	1,247	1,468	2,685	6,568	6,420	9,698	(D)	...	...	...
	Value of shipments.....do....	64,769	3,104	3,549	6,708	15,514	13,108	22,785	(D)	...	...	...
	Capital expenditures..do....	1,139	(1)	(1)	(1)	(1)	(1)	507	(D)	...	...	...
	Horsepower.....1,000 hp..	14	(2)	(2)	1	4	4	5	(D)	...	...	...
	Electricity used..mil. kwh..	28	1	1	3	6	7	10	(D)	...	...	...

See footnotes at end of table.

SIZE OF ESTABLISHMENTS

203-95

Table 1.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR MAJOR INDUSTRY GROUPS AND INDUSTRIES: 1954—Con.

Code	Industry group, industry, and item	Total, all estab- lish- ments	Establishments with an average of—									
			1-4 em- ployees	5-9 em- ployees	10-19 em- ployees	20-49 em- ployees	50-99 em- ployees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
3964	Needles, pins, and fasteners:											
	Number of establishments....	357	104	61	62	65	28	21	9	3	2	2
	Total employees.....	23,152	267	453	896	2,025	2,058	3,360	3,193	2,382	8,515	(D)
	Total payroll.....\$1,000..	80,846	650	1,024	2,154	6,048	6,150	10,712	10,612	9,545	33,948	(D)
	Production workers:											
	Number.....	18,893	228	400	795	1,800	1,851	2,925	2,631	1,864	6,395	(D)
	Man-hours.....1,000..	35,935	416	737	1,445	3,487	3,395	5,607	5,177	3,541	12,127	(D)
	Wages.....\$1,000..	56,674	490	841	1,736	4,533	4,843	7,934	7,428	6,676	22,191	(D)
	Value added by mfg....do....	121,625	1,519	2,047	3,734	10,862	11,017	18,349	16,984	15,398	41,711	(D)
	Cost of materials.....do....	81,497	1,974	2,289	4,924	9,004	10,568	9,921	8,150	7,337	27,325	(D)
	Value of shipments.....do....	203,122	3,494	4,337	8,659	19,867	21,586	28,270	25,135	22,735	69,036	(D)
	Capital expenditures.....do....	4,981	(1)	(1)	(1)	(1)	(1)	(1)	(1)	533	2,849	(D)
	Horsepower.....1,000 hp..	37	(2)	(2)	1	2	2	4	4	9	15	(D)
	Electricity used..mil. kwh..	86	3	2	4	6	7	9	9	10	36	(D)
3971	Plastics products, nec:											
	Number of establishments....	2,439	807	419	384	430	200	132	40	24	3	...
	Total employees.....	91,967	1,980	2,974	5,573	13,801	13,928	20,211	13,824	15,616	4,058	...
	Total payroll.....\$1,000..	350,227	5,297	9,577	18,648	48,375	51,785	78,065	56,253	64,123	18,103	...
	Production workers:											
	Number.....	75,689	1,596	2,386	4,596	11,485	11,643	16,666	11,486	12,418	3,410	...
	Man-hours.....1,000..	152,179	2,996	4,599	8,669	22,420	23,532	33,663	23,419	25,258	7,620	...
	Wages.....\$1,000..	248,975	3,689	6,474	12,680	33,089	36,576	56,200	40,808	45,596	13,858	...
	Value added by mfg....do....	589,254	12,109	18,000	32,872	85,712	90,386	127,513	95,995	93,756	32,906	...
	Cost of materials.....do....	603,645	14,320	18,196	32,336	87,576	100,624	131,106	106,163	89,445	23,875	...
	Value of shipments.....do....	1,192,895	26,429	36,197	65,209	173,288	191,011	258,619	202,159	183,202	56,782	...
	Capital expenditures.....do....	45,290	3,241	1,826	2,837	8,308	5,615	8,030	5,873	7,217	2,339	...
	Horsepower.....1,000 hp..	363	9	7	20	51	47	78	68	77	6	...
	Electricity used..mil. kwh..	887	49	36	57	108	129	164	159	159	26	...
3981	Brooms and brushes:											
	Number of establishments....	698	309	123	89	99	43	24	9	2	...	...
	Total employees.....	16,826	752	862	1,228	3,154	3,018	3,448	4,362	(D)	...	...
	Total payroll.....\$1,000..	54,789	1,553	2,168	3,592	9,064	9,433	11,351	17,625	(D)	...	...
	Production workers:											
	Number.....	13,534	627	739	1,008	2,642	2,458	2,681	3,377	(D)	...	...
	Man-hours.....1,000..	25,595	1,103	1,353	1,880	4,944	4,481	5,056	6,775	(D)	...	...
	Wages.....\$1,000..	36,294	1,165	1,720	2,517	6,213	6,244	6,667	11,767	(D)	...	...
	Value added by mfg....do....	91,737	3,278	3,908	5,973	15,008	15,532	18,119	29,916	(D)	...	...
	Cost of materials.....do....	93,707	4,418	4,614	6,366	16,047	16,706	17,458	28,096	(D)	...	...
	Value of shipments.....do....	185,445	7,697	8,523	12,340	31,054	32,238	35,577	58,013	(D)	...	...
	Capital expenditures.....do....	3,074	(1)	(1)	(1)	(1)	627	(1)	1,258	(D)	...	...
	Horsepower.....1,000 hp..	24	(2)	(2)	1	4	5	4	10	(D)	...	...
	Electricity used..mil. kwh..	37	1	2	2	7	7	5	13	(D)	...	...
3982	Cork products:											
	Number of establishments....	35	9	7	4	6	2	4	2	1	...	...
	Total employees.....	2,117	29	46	62	300	(D)	1,679	(D)	(D)	...	...
	Total payroll.....\$1,000..	8,097	72	123	184	855	(D)	6,862	(D)	(D)	...	...
	Production workers:											
	Number.....	1,771	20	38	49	248	(D)	1,415	(D)	(D)	...	...
	Man-hours.....1,000..	3,507	38	72	97	488	(D)	2,809	(D)	(D)	...	...
	Wages.....\$1,000..	6,233	51	89	141	606	(D)	5,344	(D)	(D)	...	...
	Value added by mfg....do....	19,843	190	321	221	1,575	(D)	17,534	(D)	(D)	...	...
	Cost of materials.....do....	20,067	160	343	330	1,802	(D)	17,429	(D)	(D)	...	...
	Value of shipments.....do....	39,910	351	664	552	3,377	(D)	34,964	(D)	(D)	...	...
	Capital expenditures.....do....	1,486	(1)	(1)	(1)	84	(D)	1,369	(D)	(D)	...	...
	Horsepower.....1,000 hp..	12	2	(2)	(2)	1	(D)	9	(D)	(D)	...	...
	Electricity used..mil. kwh..	23	7	(3)	(3)	1	(D)	15	(D)	(D)	...	...
3983	Matches:											
	Number of establishments....	20	...	...	...	1	5	4	6	3	1	...
	Total employees.....	6,191	...	...	...	408	(D)	629	5,152	(D)	(D)	...
	Total payroll.....\$1,000..	21,308	...	...	...	1,484	(D)	2,025	17,797	(D)	(D)	...
	Production workers:											
	Number.....	5,147	...	...	...	343	(D)	560	4,242	(D)	(D)	...
	Man-hours.....1,000..	10,290	...	...	...	696	(D)	1,078	8,514	(D)	(D)	...
	Wages.....\$1,000..	15,945	...	...	...	1,097	(D)	1,645	13,201	(D)	(D)	...
	Value added by mfg....do....	35,391	...	...	...	2,669	(D)	3,688	29,033	(D)	(D)	...
	Cost of materials.....do....	25,241	...	...	...	2,422	(D)	3,429	19,389	(D)	(D)	...
	Value of shipments.....do....	60,633	...	...	...	5,091	(D)	7,117	48,423	(D)	(D)	...
	Capital expenditures.....do....	846	...	...	...	(1)	(D)	(1)	633	(D)	(D)	...
	Horsepower.....1,000 hp..	18	...	...	...	(2)	(D)	4	14	(D)	(D)	...
	Electricity used..mil. kwh..	23	...	...	...	1	(D)	3	19	(D)	(D)	...

See footnotes at end of table.

Table 1.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR MAJOR INDUSTRY GROUPS AND INDUSTRIES: 1954—Con.

Code	Industry group, industry, and item	Total, all estab- lish- ments	Establishments with an average of—									
			1-4 em- ployees	5-9 em- ployees	10-19 em- ployees	20-49 em- ployees	50-99 em- ployees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
3984	<u>Candles:</u>											
	Number of establishments....	89	34	11	21	6	9	5	3	...	...	...
	Total employees.....	3,010	80	82	308	183	610	651	1,093	...	...	...
	Total payroll.....\$1,000..	9,420	156	202	901	564	1,905	1,987	3,703	...	...	...
	Production workers:											
	Number.....	2,289	58	69	250	154	475	509	772	...	...	...
	Man-hours.....1,000..	4,716	109	111	499	300	1,035	1,063	1,597	...	...	...
	Wages.....\$1,000..	6,112	112	147	615	393	1,260	1,366	2,217	...	...	...
	Value added by mfg....do....	16,486	308	351	1,587	1,199	3,487	3,440	6,112	...	...	...
	Cost of materials.....do....	12,801	298	451	1,513	913	2,435	3,029	4,160	...	...	...
	Value of shipments.....do....	29,288	607	802	3,100	2,112	5,922	6,470	10,272	...	...	...
	Capital expenditures....do....	822	(1)	(1)	(1)	(1)	(1)	(1)	(1)	...	...	...
	Horsepower.....1,000 hp..	2	1	(2)	(2)	(2)	(2)	(2)	1	...	...	...
	Electricity used..mil. kwh..	6	1	(3)	1		1	1	2	...	...	...
3985	<u>Fireworks and pyrotechnics:</u>											
	Number of establishments....	78	35	8	10	11	10	2	1	1	...	...
	Total employees.....	2,637	86	57	137	315	677	1,363	(D)	(D)	...	...
	Total payroll.....\$1,000..	7,443	191	182	335	979	1,763	3,991	(D)	(D)	...	...
	Production workers:											
	Number.....	2,334	67	41	119	268	607	1,229	(D)	(D)	...	...
	Man-hours.....1,000..	4,398	125	79	244	529	1,076	2,342	(D)	(D)	...	...
	Wages.....\$1,000..	5,552	137	83	273	682	1,275	3,099	(D)	(D)	...	...
	Value added by mfg....do....	11,931	446	328	589	1,522	3,151	5,893	(D)	(D)	...	...
	Cost of materials.....do....	9,783	325	178	384	1,327	2,468	5,097	(D)	(D)	...	...
	Value of shipments.....do....	21,715	772	507	974	2,850	5,620	10,990	(D)	(D)	...	...
	Capital expenditures....do....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(D)	(D)	...	...
	Horsepower.....1,000 hp..	1	(2)	(2)	(2)	(2)	(2)	1	(D)	(D)	...	...
	Electricity used..mil. kwh..	4	(3)	(3)	(3)	(3)	2	2	(D)	(D)	...	...
3986	<u>Jewelry and instrument cases:</u>											
	Number of establishments....	166	46	32	24	31	16	12	3	1	1	...
	Total employees.....	8,003	120	244	352	1,025	1,176	2,045	3,038	(D)	(D)	...
	Total payroll.....\$1,000..	25,050	299	602	931	2,872	3,872	6,328	10,144	(D)	(D)	...
	Production workers:											
	Number.....	6,437	99	211	296	891	1,030	1,770	2,136	(D)	(D)	...
	Man-hours.....1,000..	12,438	169	374	548	1,697	2,087	3,502	4,058	(D)	(D)	...
	Wages.....\$1,000..	16,979	207	478	713	2,098	2,758	4,540	6,182	(D)	(D)	...
	Value added by mfg....do....	37,559	592	1,046	1,482	4,547	5,462	9,872	14,555	(D)	(D)	...
	Cost of materials.....do....	26,943	507	711	1,230	3,819	5,076	7,511	8,085	(D)	(D)	...
	Value of shipments.....do....	64,502	1,100	1,758	2,713	8,367	10,539	17,383	22,641	(D)	(D)	...
	Capital expenditures....do....	781	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(D)	(D)	...
	Horsepower.....1,000 hp..	10	(2)	(2)	(2)	1	1	4	4	(D)	(D)	...
	Electricity used..mil. kwh..	21	(3)	(3)	1	5	3	6	6	(D)	(D)	...
3987	<u>Lamp shades:</u>											
	Number of establishments....	325	168	46	42	48	17	3	...	1	...	...
	Total employees.....	5,025	401	332	597	1,469	1,100	1,124	...	(D)	...	...
	Total payroll.....\$1,000..	12,542	775	795	1,493	3,625	2,757	3,096	...	(D)	...	...
	Production workers:											
	Number.....	4,524	367	303	537	1,343	978	994	...	(D)	...	...
	Man-hours.....1,000..	8,394	663	559	999	2,592	1,755	1,824	...	(D)	...	...
	Wages.....\$1,000..	9,957	626	624	1,184	3,052	2,113	2,355	...	(D)	...	...
	Value added by mfg....do....	21,492	1,786	1,487	2,427	5,729	4,787	5,273	...	(D)	...	...
	Cost of materials.....do....	17,184	1,363	1,336	1,895	4,673	3,785	4,129	...	(D)	...	...
	Value of shipments.....do....	38,677	3,150	2,823	4,323	10,403	8,573	9,403	...	(D)	...	...
	Capital expenditures....do....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	...	(D)	...	...
	Horsepower.....1,000 hp..	1	...	(2)	(2)	(2)	1	(2)	...	(D)	...	...
	Electricity used..mil. kwh..	7	(3)	1	1	2	2	1	...	(D)	...	...
3988	<u>Morticians' goods:</u>											
	Number of establishments....	563	155	84	107	124	63	24	4	2	...	...
	Total employees.....	16,729	411	603	1,551	3,889	4,067	3,861	2,345	(D)	...	...
	Total payroll.....\$1,000..	59,233	854	1,755	4,876	13,746	13,799	14,683	9,519	(D)	...	...
	Production workers:											
	Number.....	13,302	313	469	1,217	2,972	3,214	3,199	1,915	(D)	...	...
	Man-hours.....1,000..	26,499	583	933	2,337	5,904	6,461	6,415	3,863	(D)	...	...
	Wages.....\$1,000..	40,001	628	1,228	3,093	8,485	9,129	10,695	6,740	(D)	...	...
	Value added by mfg....do....	92,024	1,944	3,152	7,975	20,137	19,279	22,070	17,464	(D)	...	...
	Cost of materials.....do....	74,117	2,327	3,550	8,188	20,809	15,961	14,792	8,489	(D)	...	...
	Value of shipments.....do....	166,141	4,272	6,702	16,163	40,947	35,240	36,862	25,954	(D)	...	...
	Capital expenditures....do....	2,846	(1)	(1)	(1)	(1)	(1)	758	755	(D)	...	...
	Horsepower.....1,000 hp..	42	(2)	(2)	3	8	13	11	7	(D)	...	...
	Electricity used..mil. kwh..	45	1	2	4	10	10	11	7	(D)	...	...

See footnotes at end of table.

SIZE OF ESTABLISHMENTS

203-97

Table 1.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR MAJOR INDUSTRY GROUPS AND INDUSTRIES: 1954—Con.

Code	Industry group, industry, and item	Total, all estab- lish- ments	Establishments with an average of—									
			1-4 em- ployees	5-9 em- ployees	10-19 em- ployees	20-49 em- ployees	50-99 em- ployees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
3991	<u>Beauty and barber-shop equipment:</u>											
	Number of establishments....	67	30	10	6	11	3	7	...	...	...	...
	Total employees.....	1,719	62	76	85	320	190	984	...	...	...	...
	Total payroll.....\$1,000..	6,936	142	252	274	1,092	1,045	4,130	...	...	...	...
	Production workers:											
	Number.....	1,419	46	57	69	271	124	851	...	...	...	...
	Man-hours.....1,000..	3,016	89	112	123	537	237	1,915	...	...	...	...
	Wages.....\$1,000..	4,741	105	175	183	721	472	3,082	...	...	...	...
	Value added by mfg....do....	11,963	357	479	374	2,638	1,262	6,851	...	...	...	...
	Cost of materials.....do....	8,556	430	514	494	2,109	1,055	3,952	...	...	...	...
	Value of shipments.....do....	20,520	788	994	868	4,748	2,318	10,803	...	...	...	...
	Capital expenditures..do....	(2)	(1)	(1)	(1)	(1)	(1)	(1)	...	...	...	...
	Horsepower.....1,000 hp..	3	(2)	(2)	(2)	(2)	(2)	2	...	...	...	...
	Electricity used..mil. kwh..	5	(3)	(3)	1	1	(3)	3	...	...	...	...
3992	<u>Furs, dressed and dyed:</u>											
	Number of establishments....	160	80	26	19	17	8	8	2	...	...	...
	Total employees.....	3,459	188	190	273	519	521	1,767	(D)	...	...	...
	Total payroll.....\$1,000..	16,420	961	734	1,146	2,038	2,967	8,573	(D)	...	...	...
	Production workers:											
	Number.....	3,005	163	161	247	458	470	1,504	(D)	...	...	...
	Man-hours.....1,000..	4,822	264	303	460	906	750	2,137	(D)	...	...	...
	Wages.....\$1,000..	13,108	410	543	941	1,686	2,579	6,948	(D)	...	...	...
	Value added by mfg....do....	23,901	2,002	1,496	2,272	3,115	3,715	11,299	(D)	...	...	...
	Cost of materials.....do....	5,159	1,030	322	707	1,355	554	1,189	(D)	...	...	...
	Value of shipments.....do....	29,060	3,033	1,819	2,979	4,470	4,269	12,489	(D)	...	...	...
	Capital expenditures..do....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(D)	...	...	...
	Horsepower.....1,000 hp..	9	1	(2)	(2)	2	1	5	(D)	...	...	...
	Electricity used..mil. kwh..	7	1	(3)	(3)	1	1	4	(D)	...	...	...
3993	<u>Signs and advertising displays:</u>											
	Number of establishments....	2,620	1,340	519	367	255	97	35	7	...	...	...
	Total employees.....	33,581	3,207	3,626	5,129	7,704	6,648	4,859	2,405	...	...	...
	Total payroll.....\$1,000..	135,578	9,432	13,644	20,834	32,258	28,103	20,531	10,774	...	...	...
	Production workers:											
	Number.....	26,205	2,405	2,802	4,034	6,043	5,174	3,911	1,832	...	...	...
	Man-hours.....1,000..	51,681	4,713	5,530	7,830	11,876	10,091	7,976	3,662	...	...	...
	Wages.....\$1,000..	90,602	6,540	9,467	14,304	21,568	17,639	14,095	6,986	...	...	...
	Value added by mfg....do....	216,666	20,878	23,222	32,953	49,137	41,564	31,810	17,100	...	...	...
	Cost of materials.....do....	136,674	15,441	14,257	18,367	27,146	27,396	21,872	12,194	...	...	...
	Value of shipments.....do....	353,340	36,319	37,478	51,320	76,283	68,961	53,683	29,294	...	...	...
	Capital expenditures..do....	6,967	1,100	762	845	1,478	1,181	1,255	(1)	...	...	...
	Horsepower.....1,000 hp..	25	(2)	1	2	7	7	6	2	...	...	...
	Electricity used..mil. kwh..	64	4	3	7	15	18	12	5	...	...	...
3994	<u>Hairwork:</u>											
	Number of establishments....	131	62	25	17	17	10	...	...	...	...	...
	Total employees.....	1,708	150	169	236	481	671	...	...	...	...	...
	Total payroll.....\$1,000..	4,440	290	455	678	1,122	1,894	...	...	...	...	...
	Production workers:											
	Number.....	1,463	112	133	188	431	598	...	...	...	...	...
	Man-hours.....1,000..	2,583	176	235	324	721	1,126	...	...	...	...	...
	Wages.....\$1,000..	3,252	193	306	459	898	1,396	...	...	...	...	...
	Value added by mfg....do....	7,296	687	815	1,148	1,819	2,825	...	...	...	...	...
	Cost of materials.....do....	6,404	639	1,169	993	1,275	2,326	...	...	...	...	...
	Value of shipments.....do....	13,701	1,327	1,985	2,142	3,095	5,152	...	...	...	...	...
	Capital expenditures..do....	(1)	(1)	(1)	(1)	(1)	(1)	...	...	...	...	...
	Horsepower.....1,000 hp..	(2)	...	(2)	(2)	(2)	(2)	...	...	...	...	...
	Electricity used..mil. kwh..	1	(3)	(3)	(3)	(3)	1	...	...	...	...	...
3995	<u>Umbrellas, parasols, and canes:</u>											
	Number of establishments....	140	57	23	15	29	10	6	...	...	...	...
	Total employees.....	3,210	124	166	229	845	689	1,156	...	...	...	...
	Total payroll.....\$1,000..	9,364	254	396	572	2,586	1,844	3,710	...	...	...	...
	Production workers:											
	Number.....	2,873	109	151	208	748	602	1,054	...	...	...	...
	Man-hours.....1,000..	5,150	201	285	279	1,427	1,036	1,921	...	...	...	...
	Wages.....\$1,000..	6,965	200	339	437	1,905	1,238	2,845	...	...	...	...
	Value added by mfg....do....	14,917	689	700	1,036	4,549	2,715	5,226	...	...	...	...
	Cost of materials.....do....	16,695	971	977	1,535	5,815	3,911	3,484	...	...	...	...
	Value of shipments.....do....	31,613	1,661	1,678	2,572	10,365	6,627	8,710	...	...	...	...
	Capital expenditures..do....	(1)	(1)	(1)	...	(1)	(1)	(1)	...	...	...	...
	Horsepower.....1,000 hp..	3	(2)	(2)	(2)	(2)	1	2	...	...	...	...
	Electricity used..mil. kwh..	4	(3)	(3)	(3)	2	1	1	...	...	...	...

See footnotes at end of table.

MANUFACTURES--SUMMARY STATISTICS

Table 1.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR MAJOR INDUSTRY GROUPS AND INDUSTRIES: 1954—Con.

Code	Industry group, industry, and item	Total, all estab- lish- ments	Establishments with an average of—									
			1-4 em- ployees	5-9 em- ployees	10-19 em- ployees	20-49 em- ployees	50-99 em- ployees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
3996	Tobacco pipes:											
	Number of establishments....	43	19	6	6	5	3	2	2	...	...	...
	Total employees.....	1,521	40	43	83	155	213	986	(D)	...	...	...
	Total payroll.....\$1,000..	4,768	110	136	314	433	611	3,163	(D)	...	...	...
	Production workers:											
	Number.....	1,337	33	33	69	130	193	877	(D)	...	...	...
	Man-hours.....1,000..	2,501	56	61	181	252	303	1,646	(D)	...	...	...
	Wages.....\$1,000..	3,561	54	105	218	342	506	2,334	(D)	...	...	...
	Value added by mfg....do....	7,260	190	299	690	606	809	4,664	(D)	...	...	...
	Cost of materials.....do....	3,281	126	164	564	534	407	1,483	(D)	...	...	...
	Value of shipments.....do....	10,542	317	464	1,254	1,141	1,217	6,147	(D)	...	...	...
	Capital expenditures.....do....	(1)	(1)	...	(1)	(1)	(1)	(1)	(D)	...	...	...
	Horsepower.....1,000 hp..	2	(2)	(2)	(2)	(2)	(2)	2	(D)	...	...	...
	Electricity used..mil. kwh..	3	(3)	(3)	(3)	(3)	(3)	3	(D)	...	...	...
3997	Soda-fountain and bar equipment:											
	Number of establishments....	50	18	10	7	7	6	1	1	...	...	...
	Total employees.....	1,445	42	72	103	214	1,011	(D)	(D)	...	...	...
	Total payroll.....\$1,000..	6,422	135	267	381	857	4,780	(D)	(D)	...	...	...
	Production workers:											
	Number.....	1,129	33	48	85	183	777	(D)	(D)	...	...	...
	Man-hours.....1,000..	2,231	63	103	160	327	1,576	(D)	(D)	...	...	...
	Wages.....\$1,000..	4,487	110	189	309	579	3,298	(D)	(D)	...	...	...
	Value added by mfg....do....	10,808	327	559	615	1,404	7,901	(D)	(D)	...	...	...
	Cost of materials.....do....	9,109	366	494	464	1,004	6,780	(D)	(D)	...	...	...
	Value of shipments.....do....	19,918	693	1,054	1,080	2,409	14,681	(D)	(D)	...	...	...
	Capital expenditures.....do....	(1)	(1)	...	(1)	(1)	(1)	(D)	(D)	...	...	...
	Horsepower.....1,000 hp..	3	(2)	(2)	(2)	(2)	3	(D)	(D)	...	...	...
	Electricity used..mil. kwh..	3	(3)	(3)	(3)	(3)	(3)	(D)	(D)	...	...	...
3999	Miscellaneous products, nec:											
	Number of establishments....	893	418	146	134	120	38	22	11	3	1	...
	Total employees.....	20,765	1,021	1,015	1,868	3,873	2,698	3,129	3,658	3,500	(D)	...
	Total payroll.....\$1,000..	73,740	2,552	3,266	5,908	12,438	9,408	10,591	13,820	15,754	(D)	...
	Production workers:											
	Number.....	16,336	881	846	1,570	3,254	2,235	2,600	2,866	2,080	(D)	...
	Man-hours.....1,000..	31,582	1,609	1,622	2,982	6,247	4,287	5,074	5,752	4,006	(D)	...
	Wages.....\$1,000..	48,010	1,900	2,273	4,236	8,980	6,484	7,104	9,428	7,602	(D)	...
	Value added by mfg....do....	123,805	6,313	6,712	10,945	22,821	15,314	14,858	21,217	25,623	(D)	...
	Cost of materials.....do....	111,133	5,295	5,732	8,627	18,715	17,205	19,431	14,413	21,712	(D)	...
	Value of shipments.....do....	234,939	11,609	12,445	19,574	41,535	32,520	34,289	35,630	47,335	(D)	...
	Capital expenditures.....do....	6,761	(1)	(1)	(1)	534	599	546	3,499	945	(D)	...
	Horsepower.....1,000 hp..	32	1	1	1	6	4	5	6	8	(D)	...
	Electricity used..mil. kwh..	54	1	3	3	6	6	9	11	15	(D)	...
19--	Ordnance and accessories:											
	Number of establishments....	493	58	20	36	75	68	73	54	49	36	24
	Total employees.....	229,191	137	147	549	2,479	4,815	12,352	19,819	34,513	53,197	101,183
	Total payroll.....\$1,000..	1,032,781	420	563	2,265	10,660	20,543	52,563	85,197	153,565	223,847	483,146
	Production workers:											
	Number.....	170,326	108	117	429	2,040	3,989	10,354	15,816	27,563	40,218	69,679
	Man-hours.....1,000..	341,151	217	226	899	4,037	8,166	21,029	31,686	55,963	80,638	138,277
	Wages.....\$1,000..	713,169	330	400	1,455	7,363	14,476	39,129	63,221	112,723	158,437	315,619
	Value added by mfg....do....	1,769,065	1,056	996	4,094	24,137	36,924	90,233	146,683	260,403	418,437	786,102
	Cost of materials.....do....	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)
	Value of shipments.....do....	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)
	Capital expenditures.....do....	61,073	(1)	(1)	(1)	510	1,168	1,917	3,783	18,100	12,940	22,307
	Horsepower.....1,000 hp..	1,369	67	(2)	3	23	33	111	231	264	246	391
	Electricity used..mil. kwh..	1,439	79	(3)	2	12	25	96	175	279	240	531

Note: Detailed figures may not add to totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies.

¹Less than \$500 thousand.²Less than 500 hp.³Less than 500 thousand kwh.⁴The value of shipments and cost of materials, etc. are omitted for this industry group or industry because each of these measures contains extensive duplication. See Introduction for a complete explanation.⁵Horsepower data were not collected from establishments classified in Major Group 23, Apparel and related products, and industries in Group 279, Printing trades services.

Footnotes continued on next page.

SIZE OF ESTABLISHMENTS

203-99

Footnotes for Table 1.—Continued

⁶The horsepower and electric energy data for Industry 2611, "Pulp Mills," have been combined with Industry 2612, "Paper and Paperboard Mills," and the figures for Industry 3311, "Blast Furnaces," have been combined with Industry 3312, "Steel Works and Rolling Mills." The combined data are shown in the following table.

Ind. code	Industry and item	Total, all estab- lish- ments	Establishments with an average of—									2,500 employees and over
			1-4 em- ployees	5-9 em- ployees	10-19 em- ployees	20-49 em- ployees	50-99 em- ployees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	
2611	<u>Pulp mills</u>											
2612	<u>Paper and paperboard mills</u>											
	Horsepower.....1,000 hp..	7,009	113	2	29	181	411	1,326	1,923	1,988	1,036	(D)
	Electricity used..mil. kwh..	20,889	621	5	68	344	1,236	3,612	6,169	6,118	2,716	(D)
3311	<u>Blast furnaces:</u>											
3312	<u>Steel works & rolling mills:</u>											
	Horsepower.....1,000 hp..	15,476	...	(D)	...	(D)	(D)	573	809	1,306	2,903	9,628
	Electricity used..mil. kwh..	21,435	...	(D)	...	(D)	(D)	273	2,345	999	6,346	11,085

⁷Includes privately owned and/or operated establishments classified in Industry Group 19, "Ordnance and Accessories." Government owned and operated establishments are excluded from the Census data.

Table 2.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR REGIONS AND STATES: 1954

(For explanation of line captions see Introduction. Figures for any size class which cannot be shown without disclosing information for individual companies have been combined with figures for other size classes. A (D) appears in the column where the figure has been omitted and the combined figure is underlined and shown in the size class to the left. As a result, whenever size-class figures for individual States are underlined, or the symbol (D) has been substituted, the figures for the individual States within a region will not add to the total printed for that class.)

Region and State	Total, all estab- lish- ments	Establishments with an average of—									
		1-4 em- ployees	5-9 em- ployees	10-19 em- ployees	20-49 em- ployees	50-99 em- ployees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
UNITED STATES											
Number of establishments.....	286,817	106,960	47,402	41,982	42,798	21,091	15,647	6,092	2,837	1,473	535
Total employees.....	15,651,294	258,219	336,758	600,470	1,360,091	1,474,907	2,430,255	2,118,438	1,963,907	2,226,944	2,881,267
Total payroll.....\$1,000..	62,993,321	663,090	1,064,579	2,037,718	4,797,471	5,448,795	9,170,719	8,218,179	8,048,270	9,766,903	13,777,559
Production workers:											
Number.....	12,373,030	205,047	269,226	478,258	1,094,133	1,183,236	1,949,834	1,703,403	1,555,271	1,740,094	2,194,490
Man-hours.....1,000..	24,341,239	377,468	513,505	904,945	2,099,343	2,322,762	3,872,549	3,388,146	3,074,509	3,445,235	4,342,739
Wages.....\$1,000..	44,595,457	485,561	771,364	1,422,701	3,301,705	3,725,467	6,406,919	5,902,973	5,782,284	7,023,004	9,773,441
Value added by mfg.....do....	116,912,526	1,544,297	2,008,156	3,644,703	8,351,209	9,661,529	17,143,425	15,834,820	15,454,350	18,927,036	24,332,963
NEW ENGLAND											
Number of establishments.....	24,625	9,010	3,740	3,490	3,760	1,914	1,544	662	319	145	41
Total employees.....	1,431,300	20,693	26,736	49,950	120,507	135,302	240,714	227,472	220,673	218,198	171,053
Total payroll.....\$1,000..	5,356,133	48,899	82,606	167,354	409,160	471,200	856,274	828,505	852,108	885,576	754,448
Production workers:											
Number.....	1,154,083	16,579	21,302	39,562	98,711	111,789	198,410	188,400	176,368	171,844	131,114
Man-hours.....1,000..	2,275,672	31,206	42,835	76,453	190,818	219,637	393,664	372,537	346,495	337,361	264,660
Wages.....\$1,000..	3,858,699	37,347	60,553	117,409	285,031	333,486	616,345	614,978	616,178	637,939	539,429
Value added by mfg.....do....	9,128,281	104,034	144,612	276,358	667,975	771,020	1,472,998	1,430,987	1,463,657	1,566,112	1,230,525
Maine											
Number of establishments.....	3,015	1,701	415	271	291	131	102	71	21	11	1
Total employees.....	104,025	3,374	2,888	3,887	9,319	9,185	16,263	24,723	13,655	20,731	(D)
Total payroll.....\$1,000..	322,158	6,041	6,638	9,708	25,253	24,976	48,274	78,455	47,391	<u>75,422</u>	(D)
Production workers:											
Number.....	91,092	2,815	2,447	3,297	7,978	8,001	14,317	21,908	12,308	18,021	(D)
Man-hours.....1,000..	180,691	5,101	4,639	6,277	15,967	15,462	28,584	43,029	25,361	<u>36,271</u>	(D)
Wages.....\$1,000..	260,047	5,047	5,493	7,725	19,646	19,077	38,427	63,354	40,096	<u>61,182</u>	(D)
Value added by mfg.....do....	565,260	11,098	11,192	15,793	42,533	41,219	82,425	136,656	94,363	<u>129,981</u>	(D)
New Hampshire											
Number of establishments.....	1,609	705	221	186	195	117	105	56	17	7	...
Total employees.....	77,071	1,512	1,571	2,709	6,400	8,623	16,676	18,898	12,137	8,545	...
Total payroll.....\$1,000..	245,346	2,999	4,052	7,556	19,660	27,554	53,965	59,563	38,196	31,801	...
Production workers:											
Number.....	65,987	1,255	1,305	2,156	5,277	7,280	14,497	16,766	10,975	6,476	...
Man-hours.....1,000..	128,465	2,283	2,577	4,088	10,520	14,736	29,150	31,789	20,311	13,011	...
Wages.....\$1,000..	190,760	2,466	3,252	5,541	14,170	20,715	42,185	48,111	31,952	22,368	...
Value added by mfg.....do....	408,826	4,889	6,938	12,109	32,264	43,565	83,347	100,602	61,591	63,521	...
Vermont											
Number of establishments.....	1,071	459	171	145	150	72	55	9	5	5	...
Total employees.....	35,899	1,030	1,210	2,057	4,726	5,114	8,284	3,143	3,397	6,938	...
Total payroll.....\$1,000..	122,829	2,134	3,041	5,890	14,619	16,828	27,175	10,759	11,860	30,523	...
Production workers:											
Number.....	29,929	859	1,022	1,687	3,959	4,289	7,211	2,705	2,731	5,466	...
Man-hours.....1,000..	59,328	1,590	2,005	3,237	7,826	8,888	14,192	5,336	4,919	11,335	...
Wages.....\$1,000..	92,962	1,712	2,480	4,542	11,037	12,445	21,236	8,320	8,630	22,560	...
Value added by mfg.....do....	222,965	4,599	5,806	9,904	25,069	28,525	54,070	14,922	23,713	56,357	...
Massachusetts											
Number of establishments.....	11,205	3,522	1,719	1,732	1,934	959	788	315	152	66	18
Total employees.....	677,140	8,575	12,336	24,856	61,803	68,129	122,386	108,516	103,807	<u>166,732</u>	(D)
Total payroll.....\$1,000..	2,528,296	21,499	39,689	84,371	214,152	238,509	431,872	398,525	399,778	<u>699,901</u>	(D)
Production workers:											
Number.....	536,456	6,702	9,573	19,524	50,225	55,817	99,667	89,635	80,884	<u>124,429</u>	(D)
Man-hours.....1,000..	1,047,412	12,789	19,949	37,354	95,751	108,109	193,583	175,997	157,844	<u>246,034</u>	(D)
Wages.....\$1,000..	1,769,102	15,962	28,088	58,324	146,654	166,566	302,364	293,867	280,184	<u>477,091</u>	(D)
Value added by mfg.....do....	4,356,462	47,211	70,220	141,492	350,484	392,839	734,833	683,109	663,668	<u>1,272,606</u>	(D)
Rhode Island											
Number of establishments.....	2,635	906	450	412	395	213	148	66	35	9	1
Total employees.....	123,970	2,123	3,236	5,844	12,941	14,811	23,050	21,890	24,472	<u>15,603</u>	(D)
Total payroll.....\$1,000..	425,365	4,938	9,365	19,001	40,448	49,277	80,031	71,209	91,604	<u>59,492</u>	(D)
Production workers:											
Number.....	103,800	1,724	2,623	4,711	10,837	12,633	19,457	18,692	20,803	<u>12,320</u>	(D)
Man-hours.....1,000..	207,766	3,212	5,036	9,202	20,957	24,955	41,602	36,921	42,198	<u>23,683</u>	(D)
Wages.....\$1,000..	314,467	3,783	6,966	13,324	29,255	35,157	58,038	55,226	69,544	<u>43,174</u>	(D)
Value added by mfg.....do....	697,279	11,155	16,161	31,426	62,298	79,738	132,027	122,267	154,590	<u>87,617</u>	(D)
Connecticut											
Number of establishments.....	5,090	1,717	764	744	795	422	346	145	89	47	21
Total employees.....	413,193	4,079	5,495	10,597	25,318	29,440	54,055	50,302	63,205	70,503	100,199
Total payroll.....\$1,000..	1,712,136	11,288	19,821	40,828	95,028	114,056	214,957	209,994	263,279	297,483	445,402
Production workers:											
Number.....	326,815	3,224	4,332	8,187	20,435	23,769	43,261	38,694	48,667	56,331	79,915
Man-hours.....1,000..	652,008	6,231	8,629	16,295	39,797	47,487	86,553	79,465	95,862	110,358	161,329
Wages.....\$1,000..	1,231,359	8,377	14,274	27,953	64,269	79,526	154,095	146,100	185,772	219,555	331,438
Value added by mfg.....do....	2,877,486	25,082	34,295	65,634	155,327	185,134	386,296	373,431	465,732	520,270	666,285

See footnotes at end of table.

SIZE OF ESTABLISHMENTS

203-101

Table 2.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR REGIONS AND STATES: 1954—Continued

Region and State	Total, all estab- lish- ments	Establishments with an average of—									
		1-4 em- ployees	5-9 em- ployees	10-19 em- ployees	20-49 em- ployees	50-99 em- ployees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
MIDDLE ATLANTIC											
Number of establishments.....	82,380	28,172	13,494	13,164	14,350	6,481	4,152	1,388	678	360	141
Total employees.....	4,105,248	69,913	96,740	188,835	455,615	450,688	637,703	477,018	470,255	554,143	704,336
Total payroll.....\$1,000..	16,656,158	195,223	326,112	656,404	1,562,619	1,638,036	2,428,440	1,914,737	1,990,672	2,513,276	3,430,633
Production workers:											
Number.....	3,212,476	56,731	76,860	152,923	379,637	370,775	516,558	374,270	362,828	412,840	511,052
Man-hours.....1,000..	6,217,339	101,483	146,177	286,014	706,497	705,477	1,008,869	738,544	711,273	807,945	1,005,055
Wages.....\$1,000..	11,524,926	137,220	231,107	460,543	1,112,673	1,145,082	1,696,733	1,328,422	1,399,382	1,712,613	2,301,143
Value added by mfg.....do...	30,402,190	483,171	620,454	1,170,713	2,616,181	2,759,495	4,346,877	3,594,305	3,856,220	4,841,269	6,112,423
New York											
Number of establishments.....	50,402	17,935	8,763	8,534	8,904	3,497	1,789	521	255	150	54
Total employees.....	1,895,982	43,137	62,994	122,470	280,366	240,808	271,148	179,346	176,672	234,000	285,041
Total payroll.....\$1,000..	7,734,388	123,229	217,599	429,707	967,352	900,153	1,078,544	743,791	766,769	1,068,449	1,438,793
Production workers:											
Number.....	1,470,137	33,375	49,651	99,478	235,761	198,159	215,111	137,275	130,044	167,707	203,576
Man-hours.....1,000..	2,842,598	62,217	93,773	184,430	436,247	371,546	422,947	271,961	260,768	330,581	408,128
Wages.....\$1,000..	5,231,858	84,705	150,875	299,423	693,430	626,678	733,511	497,189	509,033	692,345	944,667
Value added by mfg.....do...	14,140,524	319,081	419,340	770,785	1,614,677	1,513,476	1,940,291	1,425,783	1,389,455	2,127,065	2,618,914
New Jersey											
Number of establishments.....	13,183	4,348	2,045	2,042	2,315	1,070	818	300	145	73	27
Total employees.....	787,593	12,062	14,646	29,250	74,006	74,959	126,832	102,210	100,421	114,250	138,955
Total payroll.....\$1,000..	3,352,425	36,609	51,631	105,857	262,697	289,855	511,403	437,691	444,910	531,269	680,501
Production workers:											
Number.....	605,099	9,594	11,916	23,927	61,942	60,930	100,944	78,107	76,097	84,443	97,199
Man-hours.....1,000..	1,187,747	17,330	23,302	45,665	115,882	118,552	200,642	156,109	152,028	166,136	192,099
Wages.....\$1,000..	2,280,134	25,454	37,618	75,615	188,390	200,397	354,862	299,189	309,092	359,811	429,704
Value added by mfg.....do...	6,331,178	82,907	94,815	184,735	449,191	517,913	957,959	851,576	972,190	1,006,344	1,214,025
Pennsylvania											
Number of establishments.....	18,795	5,889	2,686	2,588	3,131	1,914	1,545	567	278	137	60
Total employees.....	1,421,673	14,714	19,100	37,115	101,243	134,921	239,723	195,462	193,162	205,893	280,340
Total payroll.....\$1,000..	5,569,345	35,385	56,882	120,840	332,570	448,028	838,493	733,255	778,993	913,558	1,311,339
Production workers:											
Number.....	1,137,241	11,762	15,293	29,518	81,934	111,686	200,503	158,888	156,687	160,690	210,277
Man-hours.....1,000..	2,186,993	21,936	29,102	55,919	154,368	215,379	385,280	310,474	298,477	311,228	404,828
Wages.....\$1,000..	4,012,932	27,061	42,614	85,505	230,853	318,007	608,360	532,044	581,257	660,457	926,772
Value added by mfg.....do...	9,930,486	81,183	106,299	215,193	552,313	728,106	1,448,627	1,316,946	1,494,575	1,707,860	2,279,484
EAST NORTH CENTRAL											
Number of establishments.....	58,946	20,861	9,300	8,279	8,710	4,771	3,869	1,652	813	482	209
Total employees.....	4,459,829	51,995	65,929	118,450	276,841	335,733	605,974	581,147	567,649	730,815	1,125,290
Total payroll.....\$1,000..	20,003,625	143,325	234,933	463,347	1,130,808	1,432,226	2,602,397	2,532,731	2,576,530	3,450,900	5,436,421
Production workers:											
Number.....	3,489,654	41,159	51,914	91,591	214,844	262,048	473,093	454,750	434,891	563,342	902,155
Man-hours.....1,000..	6,964,115	78,086	102,149	179,467	426,916	527,919	960,429	912,449	870,836	1,128,484	1,777,655
Wages.....\$1,000..	14,265,381	105,172	167,013	313,922	747,773	952,179	1,787,445	1,788,808	1,805,879	2,483,872	4,113,773
Value added by mfg.....do...	36,500,510	323,409	433,319	795,751	1,939,550	2,542,181	4,803,331	4,833,391	4,814,016	6,398,623	9,615,286
Ohio											
Number of establishments.....	14,550	4,761	2,231	2,074	2,251	1,201	1,086	492	249	150	55
Total employees.....	1,267,542	11,087	15,998	29,546	72,172	84,786	173,232	172,636	174,825	228,336	304,922
Total payroll.....\$1,000..	5,655,721	29,759	57,617	114,351	296,897	358,265	738,467	757,875	794,446	1,061,112	1,446,930
Production workers:											
Number.....	986,282	8,846	12,560	22,775	54,960	65,767	133,696	133,895	133,237	178,177	242,366
Man-hours.....1,000..	1,947,963	16,582	24,662	44,737	110,661	132,977	268,496	266,567	264,716	350,611	467,954
Wages.....\$1,000..	4,018,755	21,973	40,395	77,454	193,420	239,056	502,272	528,518	558,890	769,089	1,087,686
Value added by mfg.....do...	10,165,111	68,451	104,078	196,261	501,385	637,335	1,382,704	1,477,942	1,479,008	1,904,007	2,414,284
Indiana											
Number of establishments.....	6,355	2,191	990	828	964	523	456	213	96	60	34
Total employees.....	582,803	5,121	6,984	11,924	30,503	37,198	70,352	75,043	65,628	91,356	188,694
Total payroll.....\$1,000..	2,504,411	12,669	22,892	42,768	111,396	141,458	278,921	304,859	287,299	404,544	897,605
Production workers:											
Number.....	457,965	4,057	5,482	9,140	23,920	29,173	55,513	59,663	50,686	72,381	147,950
Man-hours.....1,000..	902,354	7,757	10,924	18,009	47,339	58,453	111,082	118,586	100,222	141,080	288,902
Wages.....\$1,000..	1,796,754	9,555	16,780	29,349	75,679	94,326	192,130	221,652	201,002	301,168	655,111
Value added by mfg.....do...	4,625,477	27,228	40,651	74,200	189,043	247,930	489,787	619,516	515,991	817,114	1,604,119
Illinois											
Number of establishments.....	17,628	5,906	2,712	2,627	2,755	1,532	1,203	480	240	127	41
Total employees.....	1,177,933	15,550	19,259	37,573	87,088	107,518	187,043	167,192	168,607	189,673	198,428
Total payroll.....\$1,000..	5,137,353	45,677	71,376	148,686	355,585	455,017	799,575	715,770	755,521	883,887	906,259
Production workers:											
Number.....	903,784	11,990	15,014	28,945	67,733	83,057	145,082	130,218	127,484	143,597	150,661
Man-hours.....1,000..	1,789,154	22,879	29,211	55,715	132,553	164,180	292,820	260,263	257,240	288,931	285,360
Wages.....\$1,000..	3,520,339	32,244	49,577	98,798	231,851	292,510	537,865	501,070	516,772	622,749	636,901
Value added by mfg.....do...	9,668,752	107,916	134,134	263,035	622,822	833,832	1,516,337	1,365,162	1,476,362	1,698,124	1,651,023

See footnotes at end of table.

MANUFACTURES—SUMMARY STATISTICS

Table 2.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR REGIONS AND STATES: 1954—Continued

Region and State	Total, all estab- lish- ments	Establishments with an average of—									
		1-4 em- ployees	5-9 em- ployees	10-19 em- ployees	20-49 em- ployees	50-99 em- ployees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
WEST NORTH CENTRAL—Continued											
Nebraska											
Number of establishments.....	1,423	567	277	201	172	107	58	24	8	8	1
Total employees.....	56,996	1,370	1,955	2,895	5,374	7,469	17,147	(D)	5,288	15,498	(D)
Total payroll.....\$1,000..	213,732	3,153	5,862	9,974	19,215	25,319	64,758	(D)	21,356	64,093	(D)
Production workers:											
Number.....	43,431	1,049	1,509	2,172	3,898	5,409	13,157	(D)	3,662	12,575	(D)
Man-hours.....1,000..	90,351	2,007	3,087	4,757	8,485	11,129	27,585	(D)	7,352	25,949	(D)
Wages.....\$1,000..	150,728	2,384	4,369	6,851	12,267	15,684	44,041	(D)	13,848	51,284	(D)
Value added by mfg.....do....	394,222	8,287	11,780	19,991	37,556	48,845	139,148	(D)	35,593	93,022	(D)
Kansas											
Number of establishments.....	2,139	886	396	286	265	148	107	21	14	9	7
Total employees.....	131,017	2,956	2,762	4,107	8,483	10,412	16,016	7,060	10,092	69,129	(D)
Total payroll.....\$1,000..	558,457	7,490	8,097	13,531	30,983	40,586	63,443	30,091	48,559	315,675	(D)
Production workers:											
Number.....	98,187	2,301	2,078	2,985	6,185	7,809	12,402	5,464	7,079	51,884	(D)
Man-hours.....1,000..	203,102	4,455	4,180	6,081	12,982	16,315	25,788	10,897	14,295	108,107	(D)
Wages.....\$1,000..	400,619	5,820	5,807	9,079	20,033	26,903	44,434	22,679	31,252	234,612	(D)
Value added by mfg.....do....	1,049,191	22,478	14,954	25,917	57,147	86,906	137,055	62,103	118,857	523,774	(D)
SOUTH ATLANTIC											
Number of establishments.....	30,530	11,070	5,517	4,515	4,047	2,143	1,839	789	381	196	33
Total employees.....	1,745,372	28,133	38,811	64,331	129,322	148,583	285,517	277,160	262,641	295,695	215,168
Total payroll.....\$1,000..	5,480,901	58,992	87,574	156,073	357,026	425,983	825,872	819,843	811,787	1,018,447	919,301
Production workers:											
Number.....	1,466,333	22,257	32,121	53,133	104,325	121,609	238,582	240,349	231,057	255,423	167,458
Man-hours.....1,000..	2,847,757	39,486	58,208	96,211	199,967	238,552	468,602	472,981	450,224	497,834	325,680
Wages.....\$1,000..	4,072,169	42,652	66,008	111,609	240,494	290,125	590,855	632,803	653,927	799,260	644,430
Value added by mfg.....do....	10,657,729	119,303	164,347	282,258	644,775	773,622	1,566,155	1,515,244	1,522,401	2,211,087	1,858,535
Delaware											
Number of establishments.....	556	157	101	89	84	41	52	16	10	4	2
Total employees.....	39,418	383	712	1,288	2,619	3,079	7,596	5,239	7,462	11,038	(D)
Total payroll.....\$1,000..	151,269	883	1,983	4,015	7,660	10,487	25,648	19,256	32,056	49,281	(D)
Production workers:											
Number.....	30,988	309	587	1,050	2,171	2,385	6,443	4,315	5,456	8,269	(D)
Man-hours.....1,000..	60,451	564	1,109	2,050	3,866	4,915	12,923	7,958	10,925	16,141	(D)
Wages.....\$1,000..	104,882	647	1,532	2,837	5,409	6,788	19,432	13,667	20,780	33,790	(D)
Value added by mfg.....do....	353,083	2,152	3,847	6,863	13,632	20,203	48,766	36,937	87,424	133,259	(D)
Maryland											
Number of establishments.....	3,253	964	520	491	599	277	253	75	34	33	7
Total employees.....	253,144	4,436	3,712	7,045	19,316	19,362	38,917	26,431	23,500	47,513	62,912
Total payroll.....\$1,000..	987,559	14,008	10,832	21,095	60,438	62,540	134,381	95,694	90,367	211,768	286,436
Production workers:											
Number.....	195,916	3,145	2,935	5,702	15,874	15,641	30,846	20,438	17,899	35,322	48,114
Man-hours.....1,000..	384,180	5,731	5,674	11,050	30,383	29,892	61,035	40,654	35,345	71,249	93,165
Wages.....\$1,000..	675,056	7,916	7,644	14,784	41,777	41,945	90,181	64,042	60,854	144,633	201,280
Value added by mfg.....do....	1,888,585	23,147	19,898	38,174	106,791	121,232	252,863	209,113	168,934	396,932	551,501
District of Columbia											
Number of establishments.....	484	172	88	75	78	27	25	13	3	3	...
Total employees.....	20,399	424	614	1,069	2,416	1,884	3,708	4,184	2,095	4,005	...
Total payroll.....\$1,000..	90,083	1,214	2,315	4,084	10,308	8,653	16,457	19,507	9,828	17,717	...
Production workers:											
Number.....	11,821	269	446	760	1,662	1,379	4,029	2,239	809	2,228	...
Man-hours.....1,000..	22,390	518	888	1,546	3,133	2,635	4,126	4,269	1,495	3,780	...
Wages.....\$1,000..	44,743	666	1,432	2,516	5,592	4,972	7,680	9,804	3,351	8,730	...
Value added by mfg.....do....	157,213	2,645	3,777	6,487	16,561	14,641	31,908	33,798	15,818	31,578	...
Virginia											
Number of establishments.....	4,398	1,640	735	733	557	295	264	103	45	19	7
Total employees.....	239,733	3,737	5,181	10,389	17,826	20,848	41,777	35,748	31,467	31,506	41,254
Total payroll.....\$1,000..	760,454	6,904	10,833	22,728	48,877	58,530	122,663	106,641	98,050	113,623	171,605
Production workers:											
Number.....	202,654	3,133	4,391	8,887	14,053	17,107	34,965	30,344	26,679	27,179	35,913
Man-hours.....1,000..	394,735	5,309	7,716	15,075	26,831	33,731	69,096	61,217	52,028	53,933	69,797
Wages.....\$1,000..	576,844	5,392	8,500	16,769	31,953	40,615	88,497	80,375	74,806	90,384	139,703
Value added by mfg.....do....	1,629,041	14,189	19,878	39,299	91,156	102,408	226,197	205,699	184,703	399,545	345,967
West Virginia											
Number of establishments.....	2,027	907	349	253	200	125	98	50	25	17	3
Total employees.....	118,568	1,955	2,434	3,538	6,414	9,095	15,178	18,102	16,940	25,612	19,300
Total payroll.....\$1,000..	472,560	3,341	5,064	9,152	19,040	30,377	51,989	72,611	66,595	109,023	105,368
Production workers:											
Number.....	97,322	1,642	2,067	2,786	4,969	7,008	12,431	14,809	14,017	21,665	15,925
Man-hours.....1,000..	185,651	2,713	3,655	5,068	9,441	13,535	23,880	28,396	26,168	40,930	31,865
Wages.....\$1,000..	354,666	2,636	4,022	6,275	12,651	20,109	37,865	51,280	51,963	85,905	81,960
Value added by mfg.....do....	988,274	6,559	10,103	15,404	33,633	46,465	92,315	156,627	137,591	252,587	236,990

See footnotes at end of table.

SIZE OF ESTABLISHMENTS

203-103

Table 2.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR REGIONS AND STATES: 1954—Continued

Region and State	Total, all estab- lish- ments	Establishments with an average of—									
		1-4 em- ployees	5-9 em- ployees	10-19 em- ployees	20-49 em- ployees	50-99 em- ployees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
EAST NORTH CENTRAL—Continued											
Michigan											
Number of establishments.....	12,711	4,782	2,175	1,751	1,774	968	684	279	143	91	64
Total employees.....	1,001,630	12,530	15,353	25,067	56,358	67,655	107,370	99,878	99,037	138,164	380,218
Total payroll.....\$1,000..	4,891,749	36,787	56,924	106,647	251,720	330,539	520,796	475,269	479,044	705,200	1,928,821
Production workers:											
Number.....	809,316	10,117	12,240	19,665	44,284	53,242	85,058	78,154	77,940	107,609	321,007
Man-hours.....1,000..	1,655,338	19,116	24,206	39,360	88,811	108,688	177,625	160,457	156,758	223,722	656,593
Wages.....\$1,000..	3,660,965	27,222	40,880	73,692	170,331	224,598	371,850	338,155	346,510	515,785	1,551,940
Value added by mfg.....do....	8,707,194	78,216	105,548	178,854	422,513	561,309	928,712	863,277	834,979	1,226,422	3,507,271
Wisconsin											
Number of establishments.....	7,702	3,221	1,187	999	966	547	440	188	85	54	15
Total employees.....	429,919	7,707	8,335	14,340	30,720	38,576	67,977	66,398	59,552	83,286	53,028
Total payroll.....\$1,000..	1,814,390	18,433	26,124	50,895	115,210	146,947	264,638	278,958	260,220	396,157	256,806
Production workers:											
Number.....	332,305	6,149	6,618	11,066	23,947	30,809	53,744	52,820	45,544	61,578	40,171
Man-hours.....1,000..	669,304	11,752	13,146	21,646	47,552	63,621	110,406	106,576	91,900	124,140	78,846
Wages.....\$1,000..	1,268,569	14,178	19,381	34,629	76,492	101,689	183,328	199,413	182,705	275,081	182,135
Value added by mfg.....do....	3,333,976	41,598	48,908	83,401	203,787	261,775	485,791	507,494	507,676	752,956	438,589
WEST NORTH CENTRAL											
Number of establishments.....	19,020	7,620	3,357	2,561	2,557	1,335	982	344	136	90	38
Total employees.....	939,357	18,931	23,641	36,723	81,270	94,289	151,759	119,607	94,344	137,963	180,825
Total payroll.....\$1,000..	3,731,449	44,867	71,675	124,474	290,458	344,001	563,347	450,328	383,154	619,982	839,149
Production workers:											
Number.....	713,222	14,845	18,274	27,579	61,157	72,314	117,010	93,099	71,482	104,217	133,238
Man-hours.....1,000..	1,426,488	27,702	36,212	55,205	121,835	144,541	233,017	182,522	142,158	209,322	273,963
Wages.....\$1,000..	2,573,277	33,882	51,818	83,208	187,119	223,363	376,436	314,772	263,030	440,502	599,143
Value added by mfg.....do....	7,113,835	111,373	135,408	226,460	522,466	651,911	1,086,645	935,425	751,244	1,227,809	1,465,091
Minnesota											
Number of establishments.....	5,027	2,103	902	705	669	316	212	72	24	15	9
Total employees.....	203,022	4,982	6,411	9,979	21,372	22,432	32,551	25,082	17,837	21,588	40,788
Total payroll.....\$1,000..	834,888	11,716	19,703	34,470	79,401	84,775	131,188	103,686	77,076	98,704	194,167
Production workers:											
Number.....	151,132	3,955	5,088	7,611	16,127	17,398	24,872	18,305	13,918	16,161	27,697
Man-hours.....1,000..	305,345	7,294	9,930	15,172	32,001	34,556	50,533	37,378	29,980	31,793	56,706
Wages.....\$1,000..	560,492	8,815	14,594	23,509	51,570	56,031	86,780	68,563	55,960	68,732	125,938
Value added by mfg.....do....	1,594,505	26,005	37,308	61,341	141,671	155,305	250,041	243,646	138,827	189,783	350,578
Iowa											
Number of establishments.....	3,320	1,395	611	433	396	211	180	39	24	23	8
Total employees.....	162,705	3,351	4,320	6,233	12,546	14,909	27,295	13,568	17,184	32,565	30,734
Total payroll.....\$1,000..	643,980	7,488	12,672	20,330	42,530	53,494	102,638	53,360	69,085	146,773	135,608
Production workers:											
Number.....	122,763	2,611	3,260	4,602	9,312	11,430	20,132	10,037	13,253	24,462	23,664
Man-hours.....1,000..	248,683	4,888	6,625	9,452	18,682	23,712	40,513	20,518	26,420	48,839	49,032
Wages.....\$1,000..	443,615	5,706	9,073	13,461	27,081	35,115	65,468	36,555	50,338	101,554	99,264
Value added by mfg.....do....	1,235,965	18,198	23,630	38,426	77,173	106,003	191,362	117,029	136,573	290,083	237,488
Missouri											
Number of establishments.....	6,198	2,231	979	810	962	512	405	186	66	35	12
Total employees.....	368,479	5,212	6,877	11,754	30,638	36,074	63,486	65,007	43,943	56,541	48,945
Total payroll.....\$1,000..	1,420,103	12,710	21,767	40,655	108,858	129,044	220,008	228,246	167,078	261,726	230,009
Production workers:											
Number.....	285,378	4,128	5,356	8,957	23,685	28,241	50,060	52,604	33,570	42,105	36,669
Man-hours.....1,000..	552,691	7,530	10,398	17,063	45,419	54,535	96,238	99,672	64,111	85,513	72,210
Wages.....\$1,000..	977,327	9,370	15,386	26,656	70,386	83,314	148,348	163,155	111,632	183,548	165,530
Value added by mfg.....do....	2,727,266	31,363	40,817	70,170	192,076	234,605	414,341	442,669	321,394	552,897	426,934
North Dakota											
Number of establishments.....	367	183	67	52	42	16	6	1	...	...	...
Total employees.....	5,604	450	444	761	1,328	1,153	1,468	(D)	...	...	...
Total payroll.....\$1,000..	19,189	1,051	1,224	2,459	4,344	4,146	5,965	(D)	...	...	...
Production workers:											
Number.....	3,913	339	336	557	893	729	1,059	(D)	...	...	...
Man-hours.....1,000..	8,323	668	704	1,203	2,013	1,510	2,225	(D)	...	...	...
Wages.....\$1,000..	12,517	824	891	1,673	2,739	2,286	4,104	(D)	...	...	...
Value added by mfg.....do....	34,991	2,234	2,293	5,079	7,087	8,841	9,457	(D)	...	...	...
South Dakota											
Number of establishments.....	546	255	125	74	51	25	14	1	...	...	1
Total employees.....	11,531	610	872	994	1,529	1,840	5,686	(D)	...	...	(D)
Total payroll.....\$1,000..	41,096	1,259	2,350	3,055	5,127	6,637	22,668	(D)	...	...	(D)
Production workers:											
Number.....	8,414	462	647	695	1,057	1,298	4,255	(D)	...	...	(D)
Man-hours.....1,000..	17,990	860	1,288	1,477	2,253	2,784	9,328	(D)	...	...	(D)
Wages.....\$1,000..	27,977	963	1,698	1,979	3,043	4,030	16,264	(D)	...	...	(D)
Value added by mfg.....do....	77,692	2,808	4,626	5,536	9,756	11,406	43,560	(D)	...	...	(D)

See footnotes at end of table.

MANUFACTURES—SUMMARY STATISTICS

Table 2.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR REGIONS AND STATES: 1954—Continued

Region and State	Total, all estab- lish- ments	Establishments with an average of—									
		1-4 em- ployees	5-9 em- ployees	10-19 em- ployees	20-49 em- ployees	50-99 em- ployees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
EAST SOUTH CENTRAL—Continued											
Mississippi											
Number of establishments.....	2,252	835	410	341	290	183	120	50	18	4	1
Total employees.....	90,641	1,846	2,841	4,779	9,173	12,757	18,938	17,566	11,600	11,139	(D)
Total payroll.....\$1,000..	237,350	3,361	5,198	10,000	21,019	33,442	44,890	41,422	32,694	45,324	(D)
Production workers:											
Number.....	79,834	1,519	2,357	3,863	7,446	10,807	17,061	15,927	10,532	10,319	(D)
Man-hours.....1,000..	156,930	2,667	4,093	6,930	14,387	22,330	33,114	32,816	21,105	19,488	(D)
Wages.....\$1,000..	188,803	2,649	4,076	7,147	14,362	23,720	35,641	33,715	27,067	40,426	(D)
Value added by mfg.....do....	467,625	7,251	10,993	20,685	41,531	71,157	82,636	74,709	66,894	91,769	(D)
WEST SOUTH CENTRAL											
Number of establishments.....	16,469	6,796	2,780	2,289	2,152	1,130	811	325	117	50	19
Total employees.....	713,365	16,016	19,555	32,702	68,295	79,035	125,798	115,029	80,327	72,125	104,429
Total payroll.....\$1,000..	2,678,359	34,126	51,852	93,227	205,830	247,432	423,653	418,883	333,372	332,885	537,098
Production workers:											
Number.....	556,370	12,764	15,621	25,461	53,204	61,816	99,084	90,566	63,500	55,650	78,703
Man-hours.....1,000..	1,128,594	22,982	30,097	49,682	107,203	128,079	202,211	189,321	129,186	113,467	156,363
Wages.....\$1,000..	1,868,084	25,488	38,200	64,160	136,917	163,247	288,334	294,994	243,075	239,002	374,664
Value added by mfg.....do....	5,721,035	78,535	102,662	180,535	406,252	516,287	925,628	949,393	781,702	801,123	978,918
Arkansas											
Number of establishments.....	2,428	1,133	411	315	245	152	106	44	15	7	...
Total employees.....	78,391	2,444	2,931	4,465	7,857	10,492	16,243	16,100	10,006	7,851	...
Total payroll.....\$1,000..	218,473	4,011	5,984	10,020	19,103	27,676	41,845	43,744	34,882	31,208	...
Production workers:											
Number.....	67,481	2,049	2,445	3,570	6,397	8,679	14,106	14,595	8,885	6,755	...
Man-hours.....1,000..	134,479	3,407	4,377	6,526	12,551	17,698	28,324	29,389	18,101	14,106	...
Wages.....\$1,000..	171,109	3,245	4,642	7,086	13,333	19,362	31,937	36,642	29,553	25,309	...
Value added by mfg.....do....	457,047	9,234	12,111	18,339	37,919	58,362	80,682	78,592	85,732	76,076	...
Louisiana											
Number of establishments.....	3,020	1,234	491	397	382	236	170	68	28	8	6
Total employees.....	144,757	2,880	3,428	5,621	11,953	16,465	27,058	23,643	20,178	33,531	(D)
Total payroll.....\$1,000..	531,639	5,719	8,256	14,517	33,805	44,787	87,683	86,618	85,651	164,603	(D)
Production workers:											
Number.....	114,378	2,334	2,817	4,511	9,518	13,447	21,757	18,711	16,592	24,691	(D)
Man-hours.....1,000..	232,019	4,136	5,263	8,511	19,206	27,664	43,839	38,853	34,074	50,473	(D)
Wages.....\$1,000..	375,730	4,417	6,310	10,290	23,047	31,396	61,397	62,229	65,588	111,056	(D)
Value added by mfg.....do....	1,181,649	13,488	16,497	26,837	64,665	96,070	185,480	197,632	209,675	371,305	(D)
Oklahoma											
Number of establishments.....	2,131	896	392	319	263	125	83	28	16	8	1
Total employees.....	79,851	2,142	2,750	4,648	8,252	8,764	12,897	10,258	10,782	19,358	(D)
Total payroll.....\$1,000..	307,902	4,824	7,974	14,864	27,718	30,702	50,554	40,518	41,711	89,037	(D)
Production workers:											
Number.....	60,572	1,686	2,139	3,444	6,116	6,426	9,174	7,887	8,486	15,214	(D)
Man-hours.....1,000..	122,530	3,093	4,222	7,099	12,289	13,467	18,735	16,130	16,309	31,186	(D)
Wages.....\$1,000..	212,183	3,549	5,733	9,789	17,610	19,513	30,988	28,603	30,728	65,670	(D)
Value added by mfg.....do....	580,633	10,731	15,254	28,531	52,790	61,124	93,763	85,149	73,946	159,345	(D)
Texas											
Number of establishments.....	8,890	3,533	1,486	1,258	1,262	617	452	185	58	27	12
Total employees.....	410,364	8,550	10,446	17,968	40,233	43,314	69,600	65,028	39,361	41,311	74,503
Total payroll.....\$1,000..	1,620,344	19,572	29,638	53,826	125,204	144,267	243,571	248,003	171,128	198,588	386,547
Production workers:											
Number.....	313,938	6,695	8,220	13,936	31,173	33,264	54,047	49,373	29,537	31,593	56,100
Man-hours.....1,000..	639,565	12,346	16,235	27,546	63,157	69,250	111,313	104,949	60,702	63,902	110,163
Wages.....\$1,000..	1,109,061	14,277	21,515	36,995	82,927	92,976	164,012	167,520	117,206	142,540	269,091
Value added by mfg.....do....	3,501,706	45,082	58,800	106,828	250,878	300,731	565,703	588,020	412,349	511,400	661,915
MOUNTAIN											
Number of establishments.....	6,685	3,077	1,222	919	798	329	233	65	28	10	4
Total employees.....	187,493	6,981	8,735	12,976	24,964	22,837	35,141	22,231	19,105	15,405	19,115
Total payroll.....\$1,000..	749,586	17,547	26,806	43,992	90,214	86,941	142,065	93,969	83,732	72,401	91,915
Production workers:											
Number.....	144,101	5,593	6,985	9,910	19,054	17,283	26,919	17,564	14,794	12,530	13,465
Man-hours.....1,000..	286,848	10,033	13,320	18,728	36,939	34,478	55,421	35,931	29,505	25,557	26,935
Wages.....\$1,000..	532,152	13,346	20,314	30,439	61,561	58,427	99,983	71,483	59,737	56,724	60,135
Value added by mfg.....do....	1,505,145	38,887	49,204	80,272	173,157	170,672	306,755	189,061	215,039	119,808	162,287
Montana											
Number of establishments.....	868	415	171	110	109	27	24	7	4	1	...
Total employees.....	18,373	877	1,211	1,559	3,364	1,760	3,481	2,157	3,964	(D)	...
Total payroll.....\$1,000..	71,289	2,207	3,865	5,266	12,922	7,175	14,746	9,261	15,847	(D)	...
Production workers:											
Number.....	14,677	729	954	1,218	2,636	1,377	2,770	1,668	3,325	(D)	...
Man-hours.....1,000..	27,762	1,308	1,744	2,197	5,028	2,729	5,497	3,236	6,023	(D)	...
Wages.....\$1,000..	54,098	1,724	2,919	3,787	9,644	5,363	11,406	6,758	12,497	(D)	...
Value added by mfg.....do....	141,234	4,881	6,913	10,007	24,581	14,592	32,412	21,741	26,107	(D)	...

See footnotes at end of table.

SIZE OF ESTABLISHMENTS

203-105

Table 2.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR REGIONS AND STATES: 1954—Continued

Region and State	Total, all estab- lish- ments	Establishments with an average of—									
		1-4 em- ployees	5-9 em- ployees	10-19 em- ployees	20-49 em- ployees	50-99 em- ployees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
SOUTH ATLANTIC—Continued											
North Carolina											
Number of establishments.....	6,645	2,239	1,089	947	925	541	505	250	105	38	6
Total employees.....	430,001	5,207	7,653	13,326	30,036	35,766	77,286	87,824	70,140	63,071	39,690
Total payroll.....\$1,000..	1,157,416	8,950	15,635	29,451	76,386	95,127	196,718	226,892	190,319	194,039	123,899
Production workers:											
Number.....	380,089	3,961	6,492	11,151	24,553	30,844	67,813	80,735	64,973	56,538	33,026
Man-hours.....1,000..	719,429	7,427	11,330	19,603	47,115	59,502	130,476	152,785	123,223	107,394	60,572
Wages.....\$1,000..	915,683	7,240	12,007	21,414	52,478	67,331	149,952	191,412	163,472	158,416	91,959
Value added by mfg.....do....	2,210,463	18,711	29,260	52,983	134,346	165,058	330,998	366,239	310,683	462,386	339,799
South Carolina											
Number of establishments.....	2,720	990	501	394	307	164	157	98	65	41	3
Total employees.....	219,447	2,333	3,536	5,636	9,633	11,454	25,018	35,666	46,144	80,026	(D)
Total payroll.....\$1,000..	632,709	4,032	6,772	11,388	22,860	27,572	64,302	93,932	131,955	269,896	(D)
Production workers:											
Number.....	190,119	1,961	2,969	4,678	7,968	9,663	21,361	33,168	42,876	65,475	(D)
Man-hours.....1,000..	378,931	3,281	5,148	7,989	15,314	19,391	41,702	67,654	86,409	132,043	(D)
Wages.....\$1,000..	486,960	3,310	5,205	8,007	15,564	20,092	47,420	82,257	116,404	188,701	(D)
Value added by mfg.....do....	1,040,936	8,491	12,543	21,846	40,927	46,872	110,863	149,897	219,872	429,625	(D)
Georgia											
Number of establishments.....	5,655	1,891	1,169	882	721	410	333	136	75	34	4
Total employees.....	301,290	4,599	8,252	12,743	22,947	28,897	51,824	47,080	51,846	50,050	23,050
Total payroll.....\$1,000..	843,557	8,479	16,655	27,398	58,016	76,180	137,407	128,242	143,953	145,750	101,477
Production workers:											
Number.....	260,082	3,784	6,797	10,769	18,794	23,852	44,412	40,997	47,420	45,373	17,881
Man-hours.....1,000..	503,497	6,470	12,129	19,438	35,683	46,641	87,492	80,414	92,325	86,610	36,293
Wages.....\$1,000..	642,582	6,509	12,760	20,295	39,466	51,882	99,927	99,372	123,061	120,521	68,789
Value added by mfg.....do....	1,592,411	18,945	32,943	52,635	110,797	150,093	301,141	238,563	275,783	262,318	149,193
Florida											
Number of establishments.....	4,792	2,110	965	651	576	263	152	48	19	7	1
Total employees.....	123,368	5,059	6,717	9,297	18,115	18,198	24,213	16,886	13,047	11,836	(D)
Total payroll.....\$1,000..	385,291	11,181	17,485	26,762	53,441	56,517	76,307	57,068	48,664	37,866	(D)
Production workers:											
Number.....	97,338	4,053	5,437	7,350	14,281	13,730	18,282	13,304	10,928	9,973	(D)
Man-hours.....1,000..	198,489	7,473	10,559	14,392	28,201	28,310	37,872	29,634	22,306	19,742	(D)
Wages.....\$1,000..	270,749	8,336	13,056	18,712	35,604	36,391	49,901	40,594	39,236	28,919	(D)
Value added by mfg.....do....	797,721	24,464	32,098	48,567	96,932	106,650	171,104	118,371	121,593	77,942	(D)
EAST SOUTH CENTRAL											
Number of establishments.....	12,854	4,770	2,244	1,799	1,702	900	832	366	156	66	19
Total employees.....	714,758	11,097	15,748	25,804	54,228	63,124	131,682	128,701	107,800	103,438	73,272
Total payroll.....\$1,000..	2,288,840	20,363	33,477	60,447	143,491	180,113	391,899	387,317	350,940	398,317	322,789
Production workers:											
Number.....	601,493	9,196	13,020	20,827	43,224	51,636	111,361	111,051	93,666	88,424	59,215
Man-hours.....1,000..	1,166,807	15,767	23,201	37,781	83,997	103,984	218,352	218,101	182,778	172,986	110,122
Wages.....\$1,000..	1,713,827	16,135	25,382	42,165	96,295	124,872	286,465	297,442	276,598	311,272	237,476
Value added by mfg.....do....	4,701,863	44,474	66,687	116,485	287,130	345,118	780,984	786,718	777,930	872,991	623,792
Kentucky											
Number of establishments.....	2,651	990	431	375	384	170	174	79	27	18	3
Total employees.....	146,434	2,266	3,124	5,379	12,218	11,840	27,456	28,092	17,947	38,112	(D)
Total payroll.....\$1,000..	529,206	4,370	7,757	14,632	38,211	39,190	94,087	100,326	67,286	163,347	(D)
Production workers:											
Number.....	119,218	1,863	2,543	4,216	9,164	9,239	22,662	23,099	14,789	31,640	(D)
Man-hours.....1,000..	233,719	3,252	4,669	7,867	18,698	18,370	44,724	45,107	28,768	62,264	(D)
Wages.....\$1,000..	383,945	3,417	5,763	9,761	24,367	25,523	66,984	73,392	49,857	124,881	(D)
Value added by mfg.....do....	1,236,260	9,658	15,001	27,089	82,097	72,734	196,584	226,054	193,209	413,834	(D)
Tennessee											
Number of establishments.....	4,058	1,519	656	516	524	305	314	137	57	20	10
Total employees.....	260,599	3,555	4,562	7,473	16,677	21,363	49,460	47,979	39,911	31,370	38,387
Total payroll.....\$1,000..	850,175	6,575	10,256	18,460	45,415	61,053	147,658	137,311	128,888	123,300	171,572
Production workers:											
Number.....	214,027	2,946	3,682	5,892	13,125	17,337	40,937	41,488	33,882	25,149	29,725
Man-hours.....1,000..	418,378	5,006	6,803	10,824	25,752	35,425	81,023	80,734	66,417	49,665	56,991
Wages.....\$1,000..	612,461	5,218	7,507	12,537	30,265	42,802	103,881	104,349	98,364	88,877	118,936
Value added by mfg.....do....	1,678,786	15,269	21,268	35,274	89,860	111,348	288,024	277,443	236,932	250,894	352,920
Alabama											
Number of establishments.....	3,893	1,426	747	567	504	242	224	100	54	24	5
Total employees.....	217,084	3,430	5,221	8,173	16,160	17,164	35,828	35,064	38,342	37,479	20,223
Total payroll.....\$1,000..	672,109	6,057	10,266	17,355	38,846	46,428	105,264	108,258	122,072	127,595	89,968
Production workers:											
Number.....	188,414	2,868	4,438	6,856	13,489	14,253	30,701	30,537	34,463	34,217	16,589
Man-hours.....1,000..	357,780	4,842	7,636	12,160	25,160	27,859	59,491	59,444	66,488	64,929	29,771
Wages.....\$1,000..	528,618	4,851	8,036	12,720	27,301	32,827	79,959	85,986	101,310	108,035	67,593
Value added by mfg.....do....	1,319,192	12,296	19,425	33,437	73,642	89,879	213,740	208,512	280,895	207,985	179,381

See footnotes at end of table.

MANUFACTURES—SUMMARY STATISTICS

Table 2.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR REGIONS AND STATES: 1954—Continued

Region and State	Total, all estab- lish- ments	Establishments with an average of—									
		1-4 em- ployees	5-9 em- ployees	10-19 em- ployees	20-49 em- ployees	50-99 em- ployees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
MOUNTAIN—Continued											
Idaho											
Number of establishments.....	981	474	158	145	111	45	31	12	4	1	...
Total employees.....	23,722	1,086	1,125	2,007	3,461	3,004	4,755	4,483	<u>3,801</u>	(D)	...
Total payroll.....\$1,000..	89,507	2,744	3,453	6,887	12,949	11,688	18,595	19,345	<u>13,846</u>	(D)	...
Production workers:											
Number.....	20,266	915	960	1,630	2,716	2,535	4,099	3,927	<u>3,484</u>	(D)	...
Man-hours.....1,000..	39,442	1,538	1,756	2,912	5,330	5,051	8,218	7,959	<u>6,678</u>	(D)	...
Wages.....\$1,000..	72,159	2,158	2,801	5,204	9,401	9,026	15,213	16,321	<u>12,035</u>	(D)	...
Value added by mfg.....do....	182,276	6,291	6,661	12,284	24,868	24,123	38,197	39,998	<u>29,854</u>	(D)	...
Wyoming											
Number of establishments.....	328	163	78	38	29	8	8	3	1	...	...
Total employees.....	6,228	356	549	509	863	561	1,439	<u>1,951</u>	(D)	...	...
Total payroll.....\$1,000..	26,774	852	1,629	1,756	3,376	2,540	6,364	<u>10,257</u>	(D)	...	...
Production workers:											
Number.....	4,587	287	422	361	631	459	1,036	<u>1,391</u>	(D)	...	...
Man-hours.....1,000..	9,160	518	826	705	1,229	927	2,238	<u>2,717</u>	(D)	...	...
Wages.....\$1,000..	18,777	662	1,251	1,148	2,135	1,943	4,348	<u>7,290</u>	(D)	...	...
Value added by mfg.....do....	51,361	1,639	2,773	3,044	5,790	5,016	10,730	<u>22,369</u>	(D)	...	...
Colorado											
Number of establishments.....	2,069	934	383	262	266	107	87	16	9	3	2
Total employees.....	63,041	2,176	2,732	3,717	8,329	7,704	12,726	5,417	6,527	<u>13,713</u>	(D)
Total payroll.....\$1,000..	247,110	5,364	8,314	12,510	28,638	29,750	51,000	20,451	28,834	<u>62,249</u>	(D)
Production workers:											
Number.....	47,941	1,714	2,138	2,758	6,148	5,687	9,541	4,256	4,916	<u>10,783</u>	(D)
Man-hours.....1,000..	95,782	3,099	4,067	5,384	12,035	11,340	19,416	8,238	9,932	<u>22,271</u>	(D)
Wages.....\$1,000..	172,995	4,023	6,095	8,229	18,616	18,902	34,567	15,078	19,564	<u>47,921</u>	(D)
Value added by mfg.....do....	472,433	12,169	15,209	22,585	50,297	56,460	98,496	38,180	61,657	<u>117,380</u>	(D)
New Mexico											
Number of establishments.....	593	287	110	95	57	29	11	3	...	...	1
Total employees.....	14,955	646	803	1,382	1,959	1,969	<u>8,196</u>	(D)	...	...	(D)
Total payroll.....\$1,000..	62,213	1,545	2,067	4,213	6,912	6,452	<u>41,024</u>	(D)	...	...	(D)
Production workers:											
Number.....	9,380	513	632	1,084	1,496	1,529	<u>4,126</u>	(D)	...	...	(D)
Man-hours.....1,000..	18,518	940	1,202	2,061	2,954	3,009	<u>8,352</u>	(D)	...	...	(D)
Wages.....\$1,000..	32,635	1,196	1,582	3,037	4,684	4,433	<u>17,703</u>	(D)	...	...	(D)
Value added by mfg.....do....	126,326	3,072	3,930	7,735	15,778	13,175	<u>82,636</u>	(D)	...	...	(D)
Arizona											
Number of establishments.....	817	375	128	139	100	35	23	10	3	4	...
Total employees.....	26,090	844	917	1,994	3,120	2,368	3,793	3,391	1,839	7,824	...
Total payroll.....\$1,000..	109,868	2,246	2,864	6,789	10,997	9,345	16,563	13,531	8,681	38,852	...
Production workers:											
Number.....	20,267	661	721	1,513	2,409	1,619	2,659	2,811	1,293	6,581	...
Man-hours.....1,000..	42,319	1,192	1,432	2,889	4,500	3,457	5,690	6,160	3,167	13,832	...
Wages.....\$1,000..	80,563	1,629	2,176	4,667	7,279	5,436	10,273	11,300	5,993	31,810	...
Value added by mfg.....do....	192,497	5,174	5,138	11,933	19,660	18,731	38,218	26,222	12,237	55,184	...
Utah											
Number of establishments.....	852	350	164	104	106	68	43	9	6	1	1
Total employees.....	29,364	819	1,178	1,457	3,219	4,788	6,297	2,896	<u>8,710</u>	(D)	(D)
Total payroll.....\$1,000..	117,520	2,034	3,787	5,046	11,598	17,050	23,922	13,089	<u>40,994</u>	(D)	(D)
Production workers:											
Number.....	22,553	644	995	1,088	2,544	3,569	4,846	2,084	<u>6,783</u>	(D)	(D)
Man-hours.....1,000..	44,790	1,201	1,959	2,109	4,928	6,942	9,977	4,525	<u>13,149</u>	(D)	(D)
Wages.....\$1,000..	82,442	1,572	2,905	3,382	7,912	11,283	16,686	8,910	<u>29,792</u>	(D)	(D)
Value added by mfg.....do....	276,343	4,555	7,022	10,227	23,692	32,145	68,315	19,965	<u>110,422</u>	(D)	(D)
Nevada											
Number of establishments.....	177	79	30	26	20	10	6	5	1	...	...
Total employees.....	5,717	177	220	351	649	683	<u>3,637</u>	(D)	(D)	...	...
Total payroll.....\$1,000..	25,301	555	827	1,525	2,822	2,941	<u>16,631</u>	(D)	(D)	...	...
Production workers:											
Number.....	4,426	130	163	258	474	508	<u>2,893</u>	(D)	(D)	...	...
Man-hours.....1,000..	9,074	237	334	471	935	1,023	<u>6,074</u>	(D)	(D)	...	...
Wages.....\$1,000..	18,480	382	585	985	1,890	2,041	<u>12,597</u>	(D)	(D)	...	...
Value added by mfg.....do....	62,672	1,106	1,558	2,457	8,491	6,430	<u>42,630</u>	(D)	(D)	...	...
PACIFIC											
Number of establishments.....	35,308	15,598	5,747	4,973	4,720	2,085	1,379	497	205	71	33
Total employees.....	1,354,481	34,460	40,863	70,699	149,049	145,316	215,967	170,073	141,113	99,162	287,779
Total payroll.....\$1,000..	6,047,958	99,748	149,544	272,400	607,865	622,863	936,772	771,866	665,975	475,119	1,445,805
Production workers:											
Number.....	1,035,020	27,905	33,129	57,272	119,977	113,966	168,817	133,354	106,685	75,824	198,090
Man-hours.....1,000..	2,027,074	50,711	61,306	105,404	225,171	220,095	331,984	265,760	212,054	152,279	402,306
Wages.....\$1,000..	4,186,203	74,319	110,969	199,246	433,842	434,686	664,323	559,271	464,478	341,820	903,248
Value added by mfg.....do....	11,183,970	251,109	291,463	515,871	1,093,723	1,131,223	1,854,052	1,600,296	1,272,141	888,214	2,286,106

See footnotes at end of table.

SIZE OF ESTABLISHMENTS

203-107

Table 2.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR REGIONS AND STATES: 1954—Continued

Region and State	Total, all estab- lish- ments	Establishments with an average of—									
		1-4 em- ployees	5-9 em- ployees	10-19 em- ployees	20-49 em- ployees	50-99 em- ployees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
PACIFIC—Continued											
Washington											
Number of establishments.....	4,929	2,399	793	583	565	288	185	75	29	7	5
Total employees.....	192,354	4,996	5,648	8,176	17,739	20,091	30,500	26,327	<u>28,353</u>	(D)	50,524
Total payroll.....\$1,000..	842,660	13,606	20,346	30,850	71,112	82,696	127,837	118,671	<u>127,779</u>	(D)	249,763
Production workers:											
Number.....	148,759	4,134	4,629	6,642	14,371	15,965	24,647	22,097	<u>23,087</u>	(D)	33,187
Man-hours.....1,000..	280,777	7,260	8,228	11,556	25,486	29,533	47,614	42,314	<u>44,259</u>	(D)	64,525
Wages.....\$1,000..	594,668	10,412	15,449	22,783	52,212	59,735	96,185	94,020	<u>100,498</u>	(D)	143,374
Value added by mfg.....do....	1,549,060	32,205	36,773	56,829	126,966	149,219	249,701	250,878	<u>281,284</u>	(D)	365,205
Oregon											
Number of establishments.....	5,870	3,195	813	673	612	299	185	63	28	2	...
Total employees.....	134,343	6,645	5,728	9,478	19,592	20,445	29,668	21,348	<u>21,439</u>	(D)	...
Total payroll.....\$1,000..	561,580	18,703	20,759	35,653	80,205	87,774	129,248	92,651	<u>96,587</u>	(D)	...
Production workers:											
Number.....	114,464	5,703	4,958	8,260	16,512	16,934	25,603	18,635	<u>17,859</u>	(D)	...
Man-hours.....1,000..	214,740	9,773	8,574	14,309	29,840	31,938	49,746	36,434	<u>34,126</u>	(D)	...
Wages.....\$1,000..	447,741	14,576	16,499	29,072	62,412	68,054	105,797	76,571	<u>74,760</u>	(D)	...
Value added by mfg.....do....	1,037,456	49,093	41,271	68,601	145,080	156,992	236,661	173,213	<u>166,545</u>	(D)	...
California											
Number of establishments.....	24,509	10,004	4,141	3,717	3,543	1,498	1,009	359	148	62	28
Total employees.....	1,027,784	22,819	29,487	53,045	111,718	104,780	155,799	122,398	102,774	87,709	237,255
Total payroll.....\$1,000..	4,643,717	67,439	108,439	205,897	456,548	452,393	679,687	560,544	493,000	423,728	1,196,042
Production workers:											
Number.....	771,796	18,068	23,542	42,370	89,094	81,067	118,567	92,622	74,993	66,570	164,903
Man-hours.....1,000..	1,531,557	33,678	44,504	79,539	169,845	158,624	234,624	187,012	151,379	134,569	337,781
Wages.....\$1,000..	3,143,793	49,331	79,021	147,391	319,218	306,897	462,341	388,680	327,600	303,440	759,874
Value added by mfg.....do....	8,597,453	169,811	213,419	390,441	821,677	825,012	1,367,690	1,176,205	938,072	774,454	1,920,901

Note: Detailed figures may not add to totals because of independent rounding.
D Withheld to avoid disclosing figures for individual companies.

Chapter IV.—Type of Organization

GENERAL STATISTICS FOR OPERATING MANUFACTURING ESTABLISHMENTS CLASSIFIED BY TYPE OF OPERATION AND LEGAL ORGANIZATION,
BY MAJOR INDUSTRY GROUPS AND INDUSTRIES: 1954

Code	Major industry group and industry	All establishments	Type of operation ¹						Type of ownership or control ¹				
			Multiunit			Single unit			Corporate	Noncorporate			
			Total	Corporate ownership or control	Noncorporate ownership	Total	Corporate ownership or control	Noncorporate ownership		Total	Individual	Partnership	Other ²
	All industries, total:												
	Number of establishments...	286,817	31,772	29,823	1,949	255,045	118,641	136,404	148,464	138,353	88,224	47,885	2,244
	All employees:												
	Number.....1,000..	15,651	9,486	9,393	93	6,165	4,886	1,278	14,279	1,372	593	703	76
	Payroll.....\$1,000,000..	62,993	40,653	40,339	314	22,340	18,742	3,598	59,081	3,912	1,527	2,108	277
	Production workers:												
	Number.....1,000..	12,373	7,403	7,328	75	4,970	3,879	1,091	11,208	1,165	507	602	57
	Wages.....\$1,000,000..	44,595	28,991	28,762	229	15,605	12,722	2,882	41,484	3,111	1,237	1,684	190
	Value added by manu- facture.....do...	116,913	79,485	78,858	627	37,428	30,692	6,736	109,550	7,363	2,735	4,054	574
	Capital expendi- tures, new.....do...	7,818	6,103	6,052	50	1,716	1,317	399	7,369	449	176	216	57
20	Food and kindred products:												
	Number of establishments...	42,374	7,124	6,351	773	35,250	14,578	20,672	20,929	21,445	12,444	7,706	1,295
	All employees:												
	Number.....	1,647,204	926,313	888,234	38,078	720,890	517,599	203,291	1,405,833	241,370	87,742	108,603	45,023
	Payroll.....\$1,000..	6,201,500	3,759,641	3,627,840	131,801	2,441,858	1,878,912	562,946	5,506,752	694,748	223,215	315,428	156,103
	Production workers:												
	Number.....	1,138,239	644,774	617,318	27,456	493,465	348,452	145,012	965,771	172,468	63,381	75,885	33,201
	Wages.....\$1,000..	3,759,071	2,359,128	2,271,441	87,687	1,399,943	1,036,976	362,966	3,308,417	450,654	147,775	196,075	106,802
	Value added by manufacture.....do...	13,400,218	8,646,116	8,352,898	293,217	4,754,101	3,591,171	1,162,930	11,944,069	1,456,148	438,788	666,383	350,977
	Capital expenditures, new.....do...	789,050	474,150	451,896	22,254	314,900	221,885	93,015	673,781	115,269	36,868	45,857	32,542
2011	Meat packing plants:												
	Number of establishments.....	2,367	243	221	22	2,124	878	1,246	1,099	1,268	734	518	16
	Number of employees.....	220,194	152,618	151,912	706	67,576	53,681	13,894	205,594	14,600	5,671	8,157	770
2013	Prepared meats:												
	Number of establishments.....	1,316	133	128	5	1,183	546	637	674	642	374	262	6
	Number of employees.....	44,997	18,773	18,494	279	26,224	20,396	5,828	38,890	6,107	2,656	3,176	275
2015	Poultry dressing plants:												
	Number of establishments.....	1,309	189	145	44	1,120	319	801	464	845	516	296	33
	Number of employees.....	46,173	19,197	15,864	3,333	26,976	16,401	10,574	32,266	13,907	4,723	5,769	3,414
2021	Creamery butter:												
	Number of establishments.....	1,262	172	133	39	1,090	393	697	526	736	189	102	445
	Number of employees.....	21,019	9,639	7,333	2,306	11,380	4,956	6,424	12,289	8,730	977	895	6,857
2022	Natural cheese:												
	Number of establishments.....	1,419	263	222	41	1,156	245	911	467	952	538	190	224
	Number of employees.....	13,914	5,835	5,120	714	8,079	3,183	4,896	8,303	5,610	2,228	1,526	1,855
2023	Concentrated milk:												
	Number of establishments.....	359	244	223	21	115	66	49	289	70	17	20	33
	Number of employees.....	13,310	11,159	10,584	574	2,151	1,348	803	11,933	1,377	135	167	1,074
2024	Ice cream and ices:												
	Number of establishments.....	1,587	343	308	35	1,244	575	669	883	704	406	287	11
	Number of employees.....	36,488	21,026	20,410	616	15,461	10,422	5,039	30,832	5,656	2,329	2,925	401
2025	Special dairy products:												
	Number of establishments.....	187	47	44	3	140	100	40	144	43	18	20	5
	Number of employees.....	7,300	5,436	5,048	388	1,864	1,554	309	6,602	698	100	202	395
2026	Fluid milk only:												
	Number of establishments.....	1,695	44	36	8	1,651	236	1,415	272	1,423	1,024	371	28
	Number of employees.....	14,086	2,058	1,955	103	12,028	4,451	7,577	6,406	7,680	4,676	2,637	365
2027	Fluid milk and other products:												
	Number of establishments.....	4,994	667	552	115	4,327	1,543	2,784	2,095	2,899	1,602	1,047	250
	Number of employees.....	177,311	81,484	73,245	8,238	95,827	59,685	36,141	132,931	44,379	15,366	16,878	12,134
2031	Canned seafood:												
	Number of establishments.....	239	52	47	5	187	116	71	163	76	32	44	...
	Number of employees.....	15,131	5,269	5,166	103	9,861	7,361	2,499	12,527	2,603	839	1,764	...
2032	Cured fish:												
	Number of establishments.....	90	10	6	4	80	34	46	40	50	18	32	...
	Number of employees.....	1,726	(D)	(D)	(D)	(D)	(D)	(D)	1,336	389	94	295	...
2033	Canned fruits and vegetables:												
	Number of establishments.....	1,758	464	418	46	1,294	778	516	1,196	562	281	248	33
	Number of employees.....	119,836	72,916	69,232	3,683	46,920	37,608	9,312	106,840	12,995	2,718	5,595	4,681
2034	Dehydrated fruits and vegetables:												
	Number of establishments.....	148	49	35	14	99	38	61	73	75	22	31	22
	Number of employees.....	7,011	4,158	3,389	769	2,853	1,659	1,193	5,049	1,962	200	412	1,349
2035	Pickles and sauces:												
	Number of establishments.....	717	140	134	6	577	277	300	411	306	174	129	3
	Number of employees.....	21,895	12,051	11,938	113	9,843	7,307	2,536	19,246	2,649	1,100	1,494	53

See footnotes at end of table.

MANUFACTURES—SUMMARY STATISTICS

GENERAL STATISTICS FOR OPERATING MANUFACTURING ESTABLISHMENTS CLASSIFIED BY TYPE OF OPERATION AND LEGAL ORGANIZATION,
BY MAJOR INDUSTRY GROUPS AND INDUSTRIES: 1954—Continued

Code	Major industry group and industry	All establishments	Type of operation ¹						Type of ownership or control ¹				
			Multiunit			Single unit			Corporate	Noncorporate			
			Total	Corporate ownership or control	Noncorporate ownership	Total	Corporate ownership or control	Noncorporate ownership		Total	Individual	Partnership	Other ²
20	Food and kindred products—Continued												
2036	Packaged seafood:												
	Number of establishments.....	295	29	25	4	266	111	155	136	159	88	67	4
	Number of employees.....	12,200	2,987	2,762	225	9,213	5,885	3,327	8,647	3,552	1,333	1,858	361
2037	Frozen fruits and vegetables:												
	Number of establishments.....	266	75	73	2	191	138	53	211	55	20	25	10
	Number of employees.....	21,436	10,769	(D)	(D)	10,667	(D)	(D)	19,018	2,418	324	526	1,567
2041	Flour and meal:												
	Number of establishments.....	803	175	172	3	628	264	364	436	367	223	142	2
	Number of employees.....	28,969	19,273	19,213	59	9,696	7,746	1,950	26,959	2,010	988	1,007	13
2042	Prepared animal feeds:												
	Number of establishments.....	2,292	470	383	87	1,822	863	959	1,246	1,046	522	450	74
	Number of employees.....	59,890	30,364	25,577	4,786	29,526	21,549	7,977	47,126	12,763	3,252	5,123	4,386
2043	Cereal breakfast foods:												
	Number of establishments.....	46	22	22	...	24	18	6	40	6	6	...	...
	Number of employees.....	11,534	10,922	10,922	...	612	596	16	11,518	16	16	...	...
2044	Rice milling:												
	Number of establishments.....	80	25	22	3	55	35	20	57	23	4	11	8
	Number of employees.....	3,964	1,918	1,532	386	2,045	1,242	803	2,774	1,189	67	294	826
2045	Flour mixes:												
	Number of establishments.....	131	25	25	...	106	63	43	88	43	29	14	...
	Number of employees.....	5,585	4,089	4,089	...	1,495	1,262	233	5,352	233	163	70	...
2051	Bread and related products:												
	Number of establishments.....	6,103	889	822	67	5,214	1,466	3,748	2,288	3,815	2,501	1,297	17
	Number of employees.....	246,337	138,311	136,833	1,977	107,526	70,037	37,489	206,870	39,466	19,070	19,888	508
2052	Biscuit and crackers:												
	Number of establishments.....	311	84	76	8	227	120	107	196	115	61	53	1
	Number of employees.....	44,763	32,601	30,483	2,118	12,162	10,421	1,741	40,904	3,859	565	(D)	(D)
2061	Raw cane sugar:												
	Number of establishments.....	49	13	13	...	36	26	10	39	10	...	7	3
	Number of employees.....	3,078	1,210	1,210	...	1,868	1,408	460	2,618	460	...	258	201
2062	Cane sugar refining:												
	Number of establishments.....	23	18	17	1	5	5	...	22	1	...	...	1
	Number of employees.....	16,068	14,301	(D)	(D)	1,767	1,767	...	(D)	(D)	...	...	(D)
2063	Beet sugar:												
	Number of establishments.....	65	59	59	...	6	5	1	64	1	...	...	1
	Number of employees.....	11,019	10,356	10,356	...	663	(D)	(D)	(D)	(D)	...	...	(D)
2071	Confectionery products:												
	Number of establishments.....	1,434	160	135	25	1,274	561	713	696	738	493	245	...
	Number of employees.....	66,799	29,730	28,373	1,356	37,069	31,078	5,991	59,451	7,347	2,829	4,518	...
2072	Chocolate and cocoa products:												
	Number of establishments.....	28	14	14	...	14	13	1	27	1	...	-1	...
	Number of employees.....	8,465	7,011	7,011	...	1,454	(D)	(D)	(D)	(D)	...	(D)	...
2073	Chewing gum:												
	Number of establishments.....	28	5	5	...	23	22	1	27	1	1	...	...
	Number of employees.....	5,161	(D)	(D)	...	(D)	(D)	(D)	(D)	(D)	(D)	...	...
2081	Bottled soft drinks:												
	Number of establishments.....	4,643	487	446	41	4,156	2,201	1,955	2,647	1,996	1,060	923	13
	Number of employees.....	91,616	27,880	26,886	993	63,735	45,427	18,308	72,313	19,302	7,640	11,515	146
2082	Beer and ale:												
	Number of establishments.....	301	101	101	...	200	192	8	293	8	2	4	2
	Number of employees.....	81,346	54,583	54,583	...	26,762	26,331	431	80,915	431	(D)	178	(D)
2083	Malt:												
	Number of establishments.....	45	21	20	1	24	23	1	43	2	...	2	...
	Number of employees.....	2,603	1,699	(D)	(D)	904	(D)	(D)	(D)	(D)	...	(D)	...
2084	Wines and brandy:												
	Number of establishments.....	262	39	32	7	223	130	93	162	100	49	33	18
	Number of employees.....	5,724	2,310	1,770	540	3,413	2,795	618	4,565	1,158	190	519	448
2085	Distilled liquor:												
	Number of establishments.....	133	57	57	...	76	64	12	121	12	6	4	2
	Number of employees.....	21,505	18,274	18,274	...	3,230	3,022	208	21,297	208	25	(D)	(D)
2091	Leavening compounds:												
	Number of establishments.....	43	21	21	...	22	18	4	39	4	2	2	...
	Number of employees.....	2,685	2,307	2,307	...	378	358	20	2,665	20	(D)	(D)	...
2092	Shortening and cooking oils:												
	Number of establishments.....	102	53	53	...	49	30	19	83	19	13	6	...
	Number of employees.....	9,398	8,799	8,799	...	599	434	164	9,234	164	137	26	...
2093	Margarine:												
	Number of establishments.....	33	21	21	...	12	10	2	31	2	2	...	...
	Number of employees.....	2,626	1,834	1,834	...	792	(D)	(D)	(D)	(D)	(D)	...	...
2094	Corn wet milling:												
	Number of establishments.....	58	16	16	...	42	30	12	46	12	6	6	...
	Number of employees.....	13,565	12,947	12,947	...	618	522	96	13,469	96	29	67	...

See footnotes at end of table.

TYPE OF ORGANIZATION

204-3

GENERAL STATISTICS FOR OPERATING MANUFACTURING ESTABLISHMENTS CLASSIFIED BY TYPE OF OPERATION AND LEGAL ORGANIZATION,
BY MAJOR INDUSTRY GROUPS AND INDUSTRIES: 1954--Continued

Code	Major industry group and industry	All establishments	Type of operation ¹						Type of ownership or control ¹				
			Multunit			Single unit			Corporate	Noncorporate			
			Total	Corporate ownership or control	Noncorporate ownership	Total	Corporate ownership or control	Noncorporate ownership		Total	Individual	Partnership	Other ²
20	Food and kindred products--Continued												
2095	Flavorings:												
	Number of establishments.....	558	72	69	3	486	318	168	387	171	110	55	6
	Number of employees.....	10,593	5,167	4,663	503	5,426	4,713	712	9,377	1,216	371	341	503
2097	Manufactured ice:												
	Number of establishments.....	1,963	668	577	91	1,295	635	660	1,212	751	424	319	8
	Number of employees.....	20,854	9,878	9,284	593	10,976	7,656	3,319	16,941	3,913	1,966	1,914	32
2098	Macaroni and spaghetti:												
	Number of establishments.....	233	27	25	2	206	98	108	123	110	61	49	...
	Number of employees.....	7,058	2,415	(D)	(D)	4,642	(D)	(D)	6,150	907	264	643	...
2099	Food preparations, n.e.c.:												
	Number of establishments.....	2,599	418	398	20	2,181	975	1,206	1,373	1,226	816	394	16
	Number of employees.....	71,952	39,559	39,011	548	32,392	23,584	8,807	62,596	9,355	4,617	4,442	295
21	Tobacco manufactures:												
	Number of establishments....	627	184	174	10	443	151	292	325	302	251	51	...
	All employees:												
	Number.....	94,863	78,760	77,874	886	16,102	14,067	2,035	91,941	2,922	1,150	1,771	...
	Payroll.....\$1,000..	259,689	221,806	220,150	1,656	37,883	34,452	3,431	254,602	5,087	1,820	3,266	...
	Production workers:												
	Number.....	87,073	72,433	71,574	859	14,640	12,754	1,885	84,328	2,744	1,049	1,694	...
	Wages.....\$1,000..	219,736	189,416	187,880	1,535	30,320	27,297	3,022	215,177	4,558	1,618	2,939	...
	Value added by manufacture.....do...	988,001	925,755	922,212	3,543	62,246	56,073	6,172	978,286	9,715	3,421	6,294	...
	Capital expenditures, new.....do...	28,018	25,782	25,715	67	2,235	1,953	282	27,668	349	143	205	...
2111	Cigarettes:												
	Number of establishments.....	19	15	15	...	4	4	...	19	...	...	...	...
	Number of employees.....	29,987	29,751	29,751	...	236	236	...	29,987	...	...	...	...
2121	Cigars:												
	Number of establishments.....	410	66	58	8	344	86	258	144	266	226	40	...
	Number of employees.....	38,494	28,321	(D)	(D)	10,173	(D)	(D)	35,953	2,540	960	1,580	...
2131	Chewing and smoking tobacco:												
	Number of establishments.....	65	18	18	...	47	23	24	41	24	16	8	...
	Number of employees.....	7,535	5,809	5,809	...	1,725	1,575	150	7,385	150	90	60	...
2141	Tobacco stemming and redrying:												
	Number of establishments.....	133	85	83	2	48	38	10	121	12	9	3	...
	Number of employees.....	18,846	14,878	(D)	(D)	3,968	(D)	(D)	18,614	231	100	131	...
22	Textile mill products:												
	Number of establishments....	8,070	1,718	1,689	29	6,352	4,539	1,813	6,228	1,842	955	866	21
	All employees:												
	Number.....	1,037,440	644,867	642,123	2,744	392,572	355,025	37,547	997,148	40,291	11,720	27,585	985
	Payroll.....\$1,000..	3,032,490	1,890,803	1,883,692	7,111	1,141,686	1,045,714	95,972	2,929,406	103,083	26,331	73,711	3,040
	Production workers:												
	Number.....	947,502	590,171	587,586	2,585	357,331	322,832	34,499	910,418	37,084	10,912	25,308	864
	Wages.....\$1,000..	2,526,564	1,602,781	1,596,534	6,247	923,782	841,623	82,159	2,438,157	88,407	23,207	62,840	2,358
	Value added by manufacture.....do...	4,748,586	3,002,228	2,991,645	10,583	1,746,358	1,575,616	170,742	4,567,261	181,325	44,698	131,852	4,775
	Capital expenditures, new.....do...	225,914	151,658	151,245	413	74,255	67,459	6,796	218,704	7,209	1,881	5,179	149
2211	Scouring and combing plants:												
	Number of establishments.....	74	17	17	...	57	51	6	68	6	6	...	...
	Number of employees.....	7,013	2,429	2,429	...	4,583	4,536	47	6,966	47	47	...	...
2212	Yarn mills, wool, except carpet:												
	Number of establishments.....	171	42	42	...	129	113	16	155	16	6	10	...
	Number of employees.....	17,840	7,796	7,796	...	10,044	9,536	508	17,332	508	176	332	...
2213	Woolen and worsted fabrics:												
	Number of establishments.....	343	112	110	2	231	197	34	307	36	19	17	...
	Number of employees.....	62,466	37,573	(D)	(D)	24,892	(D)	(D)	61,490	976	217	758	...
2216	Finishing wool textiles:												
	Number of establishments.....	56	13	13	...	43	35	8	48	8	6	2	...
	Number of employees.....	4,215	2,459	2,459	...	1,756	1,496	260	3,955	260	(D)	(D)	...
2222	Yarn throwing mills:												
	Number of establishments.....	137	49	49	...	88	67	21	116	21	12	9	...
	Number of employees.....	11,840	6,977	6,977	...	4,863	4,431	431	11,409	431	131	300	...
2223	Thread mills:												
	Number of establishments.....	97	25	25	...	72	53	19	78	19	11	7	1
	Number of employees.....	13,908	10,562	10,562	...	3,345	3,214	131	13,776	131	63	(D)	(D)
2224	Yarn mills, cotton system:												
	Number of establishments.....	357	157	156	1	200	180	20	336	21	9	11	1
	Number of employees.....	85,275	55,013	(D)	(D)	30,262	(D)	(D)	84,447	828	(D)	542	(D)
2233	Cotton broad-woven fabrics:												
	Number of establishments.....	582	286	285	1	296	255	41	540	42	23	19	...
	Number of employees.....	296,193	234,756	(D)	(D)	61,437	(D)	(D)	295,202	991	197	793	...

See footnotes at end of table.

MANUFACTURES—SUMMARY STATISTICS

GENERAL STATISTICS FOR OPERATING MANUFACTURING ESTABLISHMENTS CLASSIFIED BY TYPE OF OPERATION AND LEGAL ORGANIZATION,
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Code	Major industry group and industry	All establishments	Type of operation ¹						Type of ownership or control ¹				
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			Total	Corporate ownership or control	Noncorporate ownership	Total	Corporate ownership or control	Noncorporate ownership		Total	Individual	Partnership	Other ²
22	Textile mill products—Continued												
2234	Synthetic broad-woven fabrics:												
	Number of establishments.....	478	181	179	2	297	232	65	411	67	35	30	2
	Number of employees.....	89,994	67,940	(D)	(D)	22,054	(D)	(D)	87,837	2,157	(D)	1,778	(D)
2241	Narrow fabric mills:												
	Number of establishments.....	513	74	72	2	439	313	126	385	128	62	65	1
	Number of employees.....	25,676	9,801	(D)	(D)	15,875	(D)	(D)	23,321	2,355	(D)	1,556	(D)
2251	Full-fashioned hosiery mills:												
	Number of establishments.....	789	130	127	3	659	404	255	531	258	139	117	2
	Number of employees.....	60,150	34,604	34,230	373	25,546	21,476	4,069	55,707	4,443	(D)	2,930	(D)
2252	Seamless hosiery mills:												
	Number of establishments.....	609	82	80	2	527	332	195	412	197	109	85	3
	Number of employees.....	63,350	19,068	(D)	(D)	44,282	(D)	(D)	56,775	6,575	2,759	3,683	132
2253	Knit outerwear mills:												
	Number of establishments.....	1,083	34	29	5	1,049	632	417	661	422	194	222	6
	Number of employees.....	46,403	7,942	7,550	392	38,461	29,869	8,592	37,419	8,984	2,330	6,382	272
2254	Knit underwear mills:												
	Number of establishments.....	149	35	35	...	114	97	17	132	17	6	11	...
	Number of employees.....	31,262	15,463	15,463	...	15,799	14,287	1,511	29,751	1,511	332	1,179	...
2255	Knit glove mills:												
	Number of establishments.....	29	9	9	...	20	15	5	24	5	2	3	...
	Number of employees.....	2,025	1,298	1,298	...	727	579	147	1,877	147	(D)	(D)	...
2256	Knit fabric mills:												
	Number of establishments.....	340	58	57	1	282	228	54	285	55	22	33	...
	Number of employees.....	16,812	6,959	(D)	(D)	9,853	9,255	597	(D)	(D)	186	(D)	...
2259	Knitting mills, n.e.c.:												
	Number of establishments.....	46	3	3	...	43	29	14	32	14	10	4	...
	Number of employees.....	1,359	(D)	(D)	...	(D)	(D)	166	1,192	166	88	78	...
2261	Finishing textiles, except wool:												
	Number of establishments.....	725	136	134	2	589	489	100	623	102	49	53	...
	Number of employees.....	79,308	48,964	(D)	(D)	30,343	(D)	(D)	76,911	2,397	467	1,929	...
2271	Wool carpets and rugs:												
	Number of establishments.....	98	37	37	...	61	44	17	81	17	10	7	...
	Number of employees.....	30,076	25,228	25,228	...	4,848	4,516	332	29,744	332	65	266	...
2273	Carpets and rugs, except wool:												
	Number of establishments.....	213	19	16	3	194	110	84	126	87	51	35	1
	Number of employees.....	11,479	4,551	4,317	234	6,927	5,238	1,688	9,555	1,923	627	(D)	(D)
2274	Hard-surface floor coverings:												
	Number of establishments.....	16	11	11	...	5	5	...	16	...	...	...	...
	Number of employees.....	9,638	8,831	8,831	...	806	806	...	9,638	...	...	...	...
2281	Fur-felt hats and hat bodies:												
	Number of establishments.....	91	11	10	1	80	50	30	60	31	21	9	1
	Number of employees.....	8,180	5,150	(D)	(D)	3,030	2,723	307	(D)	(D)	110	195	(D)
2282	Wool-felt hats and hat bodies:												
	Number of establishments.....	32	3	3	...	29	17	12	20	12	7	5	...
	Number of employees.....	1,750	(D)	(D)	...	(D)	(D)	82	1,668	82	47	34	...
2283	Straw hats:												
	Number of establishments.....	48	6	6	...	42	30	12	36	12	6	5	1
	Number of employees.....	2,294	602	602	...	1,692	1,435	257	2,037	257	66	(D)	(D)
2284	Hatters' fur:												
	Number of establishments.....	30	...	...	...	30	22	8	22	8	4	4	...
	Number of employees.....	762	...	...	...	762	700	62	700	62	28	34	...
2291	Felt goods, n.e.c.:												
	Number of establishments.....	72	18	18	...	54	36	18	54	18	11	6	1
	Number of employees.....	5,987	3,348	3,348	...	2,639	2,332	306	5,680	306	63	(D)	(D)
2292	Lace goods:												
	Number of establishments.....	138	19	19	...	119	73	46	92	46	29	17	...
	Number of employees.....	7,442	2,846	2,846	...	4,596	4,006	589	6,852	589	202	387	...
2293	Padding and upholstery filling:												
	Number of establishments.....	200	43	39	4	157	106	51	145	55	26	29	...
	Number of employees.....	9,111	4,913	4,884	29	4,197	3,582	614	8,467	643	171	471	...
2294	Processed textile waste:												
	Number of establishments.....	203	21	21	...	182	132	50	153	50	29	21	...
	Number of employees.....	5,768	1,490	1,490	...	4,278	3,755	522	5,245	522	208	313	...
2295	Coated fabric, except rubberized:												
	Number of establishments.....	106	26	26	...	80	66	14	92	14	7	7	...
	Number of employees.....	8,547	4,208	4,208	...	4,339	4,219	120	8,427	120	51	68	...
2298	Cordage and twine:												
	Number of establishments.....	137	39	39	...	98	67	31	106	31	21	10	...
	Number of employees.....	12,327	8,300	8,300	...	4,026	3,802	224	12,103	224	64	160	...
2299	Textile goods, n.e.c.:												
	Number of establishments.....	108	22	22	...	86	59	27	81	27	13	13	1
	Number of employees.....	8,975	4,336	4,336	...	4,639	3,252	1,387	7,588	1,387	(D)	1,226	(D)

See footnotes at end of table.

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			Total	Corporate ownership or control	Noncorporate ownership	Total	Corporate ownership or control	Noncorporate ownership		Total	Individual	Partnership	Other ²
23	Apparel and related products:												
	Number of establishments....	31,372	1,938	1,787	151	29,434	14,772	14,662	16,559	14,813	8,158	6,569	86
	All employees:												
	Number.....	1,190,064	332,545	319,870	12,675	857,518	583,159	274,359	903,029	287,035	112,049	171,921	3,063
	Payroll.....\$1,000..	3,201,795	836,729	807,420	29,309	2,365,066	1,691,941	673,125	2,499,361	702,434	254,256	439,114	9,063
	Production workers:												
	Number.....	1,069,867	300,961	289,260	11,701	768,906	511,800	257,106	801,060	268,807	105,931	160,343	2,532
	Wages.....\$1,000..	2,521,134	672,545	648,058	24,486	1,848,590	1,249,602	598,988	1,897,660	623,474	231,457	385,885	6,132
	Value added by manufacture.....do..	5,147,372	1,424,035	1,373,898	50,137	3,723,335	2,632,648	1,090,687	4,006,546	1,140,824	382,299	743,774	14,751
	Capital expenditures, new.....do..	76,550	29,892	29,280	612	46,658	33,538	13,120	62,818	13,732	5,268	8,290	174
2311	Men's and boys' suits and coats:												
	Number of establishments.....	1,310	137	131	6	1,173	695	478	826	484	235	249	...
	Number of employees.....	119,001	47,899	47,358	541	71,102	55,045	16,055	102,404	16,596	5,017	11,579	...
2312	Suit and coat findings:												
	Number of establishments.....	116	2	1	1	114	69	45	70	46	27	19	...
	Number of employees.....	2,684	(D)	(D)	(D)	(D)	(D)	(D)	1,912	772	323	448	...
2321	Men's dress shirts and nightwear:												
	Number of establishments.....	971	231	223	8	740	523	217	746	225	100	124	1
	Number of employees.....	108,304	56,004	54,620	1,384	52,296	41,562	10,734	96,182	12,118	(D)	8,654	(D)
2322	Men's and boys' underwear:												
	Number of establishments.....	82	29	29	...	53	34	19	63	19	12	7	...
	Number of employees.....	9,385	5,226	5,226	...	4,158	3,397	761	8,623	761	569	192	...
2323	Men's and boys' neckwear:												
	Number of establishments.....	403	7	5	2	396	172	224	177	226	146	80	...
	Number of employees.....	9,483	797	(D)	(D)	8,686	(D)	(D)	6,681	2,801	1,454	1,347	...
2325	Men's and boys' cloth hats:												
	Number of establishments.....	415	8	8	...	407	159	248	167	248	147	100	1
	Number of employees.....	8,079	708	708	...	7,371	4,109	3,261	4,817	3,261	1,161	(D)	(D)
2326	Hat and cap materials:												
	Number of establishments.....	63	3	3	...	60	41	19	44	19	11	8	...
	Number of employees.....	936	150	150	...	785	659	126	809	126	33	93	...
2327	Separate trousers:												
	Number of establishments.....	798	77	75	2	721	340	381	415	383	214	167	2
	Number of employees.....	51,652	15,609	(D)	(D)	36,042	(D)	(D)	40,953	10,698	(D)	6,710	(D)
2328	Work shirts:												
	Number of establishments.....	52	25	24	1	27	21	6	45	7	2	5	...
	Number of employees.....	6,992	4,522	(D)	(D)	2,470	(D)	(D)	6,489	502	(D)	(D)	...
2329	Men's and boys' clothing, n.e.c.:												
	Number of establishments.....	1,117	223	206	17	894	535	359	741	376	185	186	5
	Number of employees.....	90,759	39,407	37,444	1,962	51,352	41,456	9,896	78,900	11,858	2,874	8,619	364
2331	Blouses:												
	Number of establishments.....	1,245	30	24	6	1,215	576	639	600	645	331	312	2
	Number of employees.....	42,980	2,834	2,158	676	40,146	20,852	19,293	23,011	19,969	(D)	11,339	(D)
2333	Dresses, unit price:												
	Number of establishments.....	4,114	96	76	20	4,018	2,153	1,865	2,229	1,885	1,010	862	13
	Number of employees.....	143,278	9,340	8,081	1,259	133,938	78,772	55,166	86,853	56,425	24,980	30,764	680
2334	Dresses, dozen price:												
	Number of establishments.....	892	143	134	9	749	338	411	472	420	242	178	...
	Number of employees.....	54,507	19,816	19,189	627	34,690	24,727	9,963	43,916	10,590	4,598	5,992	...
2337	Women's suits, coats, and skirts:												
	Number of establishments.....	3,204	68	56	12	3,136	1,759	1,377	1,815	1,389	687	694	8
	Number of employees.....	96,022	9,631	8,438	1,193	86,391	56,474	29,917	64,912	31,110	11,949	18,728	431
2338	Women's neckwear and scarfs:												
	Number of establishments.....	133	2	2	...	131	57	74	59	74	44	28	2
	Number of employees.....	1,745	(D)	(D)	...	(D)	(D)	751	994	751	(D)	443	(D)
2339	Women's outerwear, n.e.c.:												
	Number of establishments.....	710	33	31	2	677	373	304	404	306	169	135	2
	Number of employees.....	25,361	4,356	(D)	(D)	21,005	(D)	(D)	17,792	7,569	(D)	4,220	(D)
2341	Women's and children's underwear:												
	Number of establishments.....	1,352	154	141	13	1,198	713	485	854	498	237	254	7
	Number of employees.....	73,427	22,768	21,891	877	50,658	37,058	13,600	58,949	14,478	4,624	9,442	409
2342	Corsets and allied garments:												
	Number of establishments.....	491	110	110	...	381	265	116	375	116	66	50	...
	Number of employees.....	38,807	20,078	20,078	...	18,728	15,706	3,021	35,785	3,021	700	2,321	...
2351	Millinery:												
	Number of establishments.....	871	15	15	...	856	508	348	523	348	193	153	2
	Number of employees.....	20,235	1,513	1,513	...	18,722	13,991	4,730	15,504	4,730	(D)	2,835	(D)
2361	Children's dresses:												
	Number of establishments.....	764	56	54	2	708	325	383	379	385	188	197	...
	Number of employees.....	32,525	7,199	(D)	(D)	25,326	(D)	(D)	22,210	10,315	4,311	6,003	...
2363	Children's coats:												
	Number of establishments.....	407	19	14	5	388	206	182	220	187	87	99	1
	Number of employees.....	14,399	1,439	994	445	12,960	8,315	4,644	9,309	5,090	(D)	3,351	(D)

See footnotes at end of table.

MANUFACTURES—SUMMARY STATISTICS

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23	Apparel and related products--Continued												
2369	Children's outerwear, n.e.c.:												
	Number of establishments.....	812	45	41	4	767	408	359	449	363	197	165	1
	Number of employees.....	30,613	5,955	5,393	562	24,658	16,142	8,515	21,536	9,077	(D)	5,534	(D)
2371	Fur goods:												
	Number of establishments.....	1,972	6	6	...	1,966	916	1,050	922	1,050	535	512	3
	Number of employees.....	9,983	164	164	...	9,819	5,882	3,936	6,047	3,936	1,512	2,408	14
2381	Fabric dress gloves:												
	Number of establishments.....	110	18	17	1	92	44	48	61	49	31	18	...
	Number of employees.....	4,537	2,023	(D)	(D)	2,514	(D)	(D)	3,819	717	296	421	...
2382	Fabric work gloves:												
	Number of establishments.....	130	52	51	1	78	46	32	97	33	19	13	1
	Number of employees.....	10,084	6,560	(D)	(D)	3,524	(D)	(D)	9,391	693	435	(D)	(D)
2383	Suspenders and garters:												
	Number of establishments.....	47	2	2	...	45	20	25	22	25	18	7	...
	Number of employees.....	934	(D)	(D)	...	(D)	(D)	353	580	353	232	121	...
2384	Robes and dressing gowns:												
	Number of establishments.....	328	16	14	2	312	156	156	170	158	76	81	1
	Number of employees.....	10,957	1,708	(D)	(D)	9,249	(D)	(D)	7,633	3,323	(D)	2,170	(D)
2385	Waterproof outer garments:												
	Number of establishments.....	294	14	14	...	280	164	116	178	116	71	44	1
	Number of employees.....	12,872	2,898	2,898	...	9,974	7,604	2,370	10,502	2,370	(D)	1,210	(D)
2386	Leather and sheep-lined clothing:												
	Number of establishments.....	153	1	1	...	152	92	60	93	60	34	26	...
	Number of employees.....	5,361	(D)	(D)	...	(D)	(D)	969	4,392	969	378	591	...
2387	Belts:												
	Number of establishments.....	503	10	9	1	493	248	245	257	246	123	122	1
	Number of employees.....	12,571	1,294	(D)	(D)	11,277	(D)	(D)	9,511	3,059	(D)	1,864	(D)
2388	Handkerchiefs:												
	Number of establishments.....	100	10	9	1	90	52	38	61	39	27	12	...
	Number of employees.....	3,513	1,022	(D)	(D)	2,491	(D)	(D)	2,627	886	444	442	...
2389	Apparel, n.e.c.:												
	Number of establishments.....	139	7	4	3	132	59	73	63	76	54	22	...
	Number of employees.....	3,501	397	(D)	(D)	3,103	(D)	(D)	2,897	604	326	278	...
2391	Curtains and draperies:												
	Number of establishments.....	716	39	34	5	677	233	444	267	449	306	139	4
	Number of employees.....	13,988	3,369	3,096	273	10,618	7,122	3,496	10,218	3,769	1,558	2,188	23
2392	Housefurnishings, n.e.c.:												
	Number of establishments.....	1,213	66	58	8	1,147	520	627	578	635	390	238	7
	Number of employees.....	36,188	18,063	17,183	880	18,125	11,827	6,297	29,010	7,177	2,675	4,382	119
2393	Textile bags:												
	Number of establishments.....	268	55	54	1	213	108	105	162	106	61	44	1
	Number of employees.....	12,109	6,668	(D)	(D)	5,441	(D)	(D)	10,890	1,219	(D)	730	(D)
2394	Canvas products:												
	Number of establishments.....	1,119	43	35	8	1,076	343	733	378	741	511	223	7
	Number of employees.....	13,540	2,804	2,562	242	10,735	6,016	4,718	8,579	4,960	2,387	2,476	97
2395	Tucking, pleating, and stitching:												
	Number of establishments.....	491	4	2	2	487	150	337	152	339	184	154	1
	Number of employees.....	6,453	146	(D)	(D)	6,306	(D)	(D)	2,954	3,498	(D)	2,043	(D)
2396	Trimings and art goods:												
	Number of establishments.....	836	26	25	1	810	407	403	432	404	229	174	1
	Number of employees.....	17,754	5,370	(D)	(D)	12,384	(D)	(D)	13,901	3,853	(D)	2,285	(D)
2397	Schiffli-machine embroideries:												
	Number of establishments.....	601	5	4	1	596	192	404	196	405	168	234	3
	Number of employees.....	5,715	143	(D)	(D)	5,572	(D)	(D)	2,677	3,038	928	2,093	16
2398	Embroideries, except Schiffli:												
	Number of establishments.....	926	6	5	1	920	296	624	301	625	390	232	3
	Number of employees.....	10,803	112	(D)	(D)	10,691	(D)	(D)	5,464	5,339	2,398	2,854	87
2399	Textile products, n.e.c.:												
	Number of establishments.....	1,104	45	40	5	1,059	456	603	496	608	401	202	5
	Number of employees.....	18,006	4,156	3,854	302	13,849	9,517	4,332	13,371	4,634	2,463	2,067	103
24	Lumber and wood products:												
	Number of establishments....	41,484	1,791	1,546	245	39,693	8,262	31,431	9,808	31,676	23,381	8,170	125
	All employees:												
	Number.....	645,936	183,888	176,879	7,009	462,048	230,381	231,667	407,260	238,676	136,286	97,575	4,814
	Payroll.....\$1,000..	1,933,523	646,496	625,302	21,194	1,287,026	764,769	522,257	1,390,072	543,451	271,334	251,859	20,257
	Production workers:												
	Number.....	581,920	165,274	158,787	6,486	416,646	202,325	214,320	361,113	220,807	125,751	90,620	4,434
	Wages.....\$1,000..	1,604,859	542,187	523,341	18,845	1,062,672	596,460	466,211	1,119,802	485,056	242,295	224,599	18,162
	Value added by manufacture.....do...	3,188,409	1,054,233	1,019,534	34,699	2,134,175	1,193,720	940,455	2,213,254	975,155	475,234	469,861	30,059
	Capital expenditures, new.....do...	217,361	68,207	65,347	2,860	149,153	61,734	87,419	127,081	90,279	48,433	40,421	1,424

See footnotes at end of table.

TYPE OF ORGANIZATION

204-7

GENERAL STATISTICS FOR OPERATING MANUFACTURING ESTABLISHMENTS CLASSIFIED BY TYPE OF OPERATION AND LEGAL ORGANIZATION,
BY MAJOR INDUSTRY GROUPS AND INDUSTRIES: 1954--Continued

Code	Major industry group and industry	All establishments	Type of operation ¹						Type of ownership or control ¹				
			Multiunit			Single unit			Corporate	Noncorporate			
			Total	Corporate ownership or control	Noncorporate ownership	Total	Corporate ownership or control	Noncorporate ownership		Total	Individual	Partnership	Other ²
24	Lumber and wood products-- Continued												
2411	Logging camps and contractors:												
	Number of establishments.....	12,865	185	130	55	12,680	1,353	11,327	1,483	11,382	9,170	2,159	53
	Number of employees.....	75,510	12,670	12,122	548	62,840	9,145	53,694	21,268	54,242	40,190	13,617	433
2421	Sawmills and planing mills:												
	Number of establishments.....	19,778	657	534	123	19,121	3,472	15,649	4,006	15,772	11,338	4,401	33
	Number of employees.....	321,199	82,692	79,224	3,468	238,506	102,216	136,289	181,440	139,758	77,662	61,101	994
2422	Veneer mills:												
	Number of establishments.....	261	46	39	7	215	148	67	187	74	19	48	7
	Number of employees.....	12,825	2,725	2,322	402	10,100	7,847	2,252	10,170	2,655	642	1,585	427
2423	Shingle mills:												
	Number of establishments.....	175	11	11	...	164	35	129	46	129	77	52	...
	Number of employees.....	2,532	614	614	...	1,918	968	949	1,583	949	362	587	...
2424	Cooperage stock mills:												
	Number of establishments.....	205	51	45	6	154	42	112	87	118	68	47	3
	Number of employees.....	3,368	1,414	1,376	38	1,954	757	1,196	2,134	1,234	637	554	43
2425	Excelsior mills:												
	Number of establishments.....	68	11	10	1	57	26	31	36	32	18	14	...
	Number of employees.....	1,424	625	(D)	(D)	799	(D)	(D)	1,134	290	139	151	...
2431	Millwork plants:												
	Number of establishments.....	3,348	127	116	11	3,221	1,317	1,904	1,433	1,915	1,245	665	5
	Number of employees.....	68,668	16,458	16,266	191	52,210	39,774	12,436	56,040	12,627	5,918	6,609	99
2432	Plywood plants:												
	Number of establishments.....	255	94	88	6	161	127	34	215	40	7	23	10
	Number of employees.....	39,201	21,618	20,728	890	17,583	14,500	3,083	35,228	3,973	151	1,833	1,988
2433	Prefabricated wood products:												
	Number of establishments.....	231	23	23	...	208	139	69	162	69	50	18	1
	Number of employees.....	11,547	4,845	4,845	...	6,701	5,817	883	10,663	883	562	(D)	(D)
2441	Fruit and vegetable baskets:												
	Number of establishments.....	134	21	18	3	113	50	63	68	66	44	21	1
	Number of employees.....	6,685	2,245	2,169	75	4,440	2,811	1,628	4,981	1,704	668	(D)	(D)
2442	Rattan and willow ware:												
	Number of establishments.....	75	...	...	...	75	24	51	24	51	30	21	...
	Number of employees.....	1,293	...	...	...	1,293	891	402	891	402	213	188	...
2443	Cigar boxes:												
	Number of establishments.....	23	8	8	...	15	8	7	16	7	3	4	...
	Number of employees.....	1,081	628	628	...	453	348	105	976	105	6	99	...
2444	Wooden boxes:												
	Number of establishments.....	1,101	153	139	14	948	421	527	560	541	334	200	7
	Number of employees.....	39,522	16,308	15,199	1,109	23,214	16,645	6,569	31,844	7,678	2,981	3,981	714
2445	Cooperage:												
	Number of establishments.....	180	97	96	1	83	35	48	131	49	35	13	1
	Number of employees.....	3,723	2,266	(D)	(D)	1,456	(D)	(D)	3,399	324	165	(D)	(D)
2491	Wood preserving:												
	Number of establishments.....	288	141	134	7	147	95	52	229	59	32	27	...
	Number of employees.....	12,073	8,137	8,110	27	3,936	3,310	625	11,420	652	342	310	...
2492	Lasts and related products:												
	Number of establishments.....	51	13	13	...	38	28	10	41	10	5	5	...
	Number of employees.....	1,463	611	611	...	851	792	59	1,404	59	25	33	...
2493	Mirror and picture frames:												
	Number of establishments.....	343	7	6	1	336	152	184	158	185	115	69	1
	Number of employees.....	5,214	927	(D)	(D)	4,286	(D)	(D)	4,171	1,042	531	(D)	(D)
2499	Wood products, n.e.c.:												
	Number of establishments.....	2,103	146	136	10	1,957	790	1,167	926	1,177	791	383	3
	Number of employees.....	38,600	9,099	8,916	183	29,501	19,592	9,909	28,508	10,092	5,083	4,979	29
25	Furniture and fixtures:												
	Number of establishments.....	10,273	528	483	45	9,745	4,638	5,107	5,121	5,152	3,317	1,807	28
	All employees:												
	Number.....	340,694	105,405	103,688	1,717	235,289	191,670	43,619	295,358	45,336	19,749	24,863	723
	Payroll.....\$1,000..	1,197,376	397,734	392,779	4,955	799,641	665,504	134,136	1,058,283	139,092	58,081	78,406	2,604
	Production workers:												
	Number.....	286,649	87,510	85,967	1,543	199,138	161,746	37,392	247,713	38,935	16,745	21,588	601
	Wages.....\$1,000..	892,891	299,102	295,033	4,069	593,789	485,234	108,555	780,267	112,624	46,697	63,932	1,993
	Value added by manufacture.....do...	1,966,410	689,893	681,794	8,099	1,276,517	1,032,281	244,236	1,714,075	252,335	101,642	145,588	5,103
	Capital expenditures, new.....do...	61,945	24,024	23,778	245	37,921	6,853	31,068	30,631	31,314	4,344	26,871	97
2511	Wood furniture, not upholstered:												
	Number of establishments.....	2,785	165	157	8	2,620	1,288	1,332	1,445	1,340	859	477	4
	Number of employees.....	124,898	36,000	35,645	354	88,898	77,362	11,536	113,007	11,890	4,909	6,906	74
2512	Upholstered household furniture:												
	Number of establishments.....	1,780	85	70	15	1,695	936	759	1,006	774	457	314	3
	Number of employees.....	56,022	12,001	11,177	824	44,020	34,748	9,272	45,925	10,096	4,143	5,886	66

See footnotes at end of table.

MANUFACTURES—SUMMARY STATISTICS

GENERAL STATISTICS FOR OPERATING MANUFACTURING ESTABLISHMENTS CLASSIFIED BY TYPE OF OPERATION AND LEGAL ORGANIZATION,
BY MAJOR INDUSTRY GROUPS AND INDUSTRIES: 1954--Continued

Code	Major industry group and industry	All establishments	Type of operation ¹						Type of ownership or control ¹				
			Multiunit			Single unit			Corporate	Noncorporate			
			Total	Corporate ownership or control	Noncorporate ownership	Total	Corporate ownership or control	Noncorporate ownership		Total	Individual	Partnership	Other ²
25	Furniture and fixtures--Continued												
2514	Metal household furniture:												
	Number of establishments.....	641	40	38	2	601	372	229	410	231	126	104	1
	Number of employees.....	29,629	9,883	(D)	(D)	19,746	(D)	(D)	26,251	3,378	(D)	2,516	(D)
2515	Mattresses and bedsprings:												
	Number of establishments.....	1,195	71	63	8	1,124	438	686	501	694	476	212	6
	Number of employees.....	32,096	13,186	13,066	120	18,910	14,527	4,383	27,593	4,503	2,344	2,109	49
2519	Household furniture, n.e.c.:												
	Number of establishments.....	69	3	3	...	66	32	34	35	34	18	16	...
	Number of employees.....	1,285	(D)	(D)	...	(D)	(D)	437	848	437	267	170	...
2521	Wood office furniture:												
	Number of establishments.....	112	7	6	1	105	67	38	73	39	23	16	...
	Number of employees.....	5,509	852	(D)	(D)	4,656	(D)	(D)	5,073	435	162	272	...
2522	Metal office furniture:												
	Number of establishments.....	129	22	22	...	107	72	35	94	35	20	14	1
	Number of employees.....	16,143	10,826	10,826	...	5,317	4,517	800	15,343	800	(D)	413	(D)
2531	Public-building furniture:												
	Number of establishments.....	292	17	17	...	275	142	133	159	133	95	36	2
	Number of employees.....	14,044	5,830	5,830	...	8,213	6,601	1,612	12,431	1,612	(D)	797	(D)
2532	Professional furniture:												
	Number of establishments.....	102	10	10	...	92	63	29	73	29	20	9	...
	Number of employees.....	5,526	2,389	2,389	...	3,137	2,898	239	5,287	239	83	156	...
2541	Partitions and fixtures:												
	Number of establishments.....	1,626	39	34	5	1,587	734	853	768	858	565	288	5
	Number of employees.....	33,137	8,144	8,070	74	24,992	18,749	6,242	26,820	6,316	3,051	3,127	137
2561	Window and door screens:												
	Number of establishments.....	215	17	17	...	198	77	121	94	121	82	39	...
	Number of employees.....	4,405	1,380	1,380	...	3,024	2,157	867	3,537	867	487	379	...
2562	Window shades:												
	Number of establishments.....	196	19	17	2	177	63	114	80	116	85	30	1
	Number of employees.....	4,368	2,685	(D)	(D)	1,683	(D)	(D)	3,890	478	(D)	187	(D)
2563	Venetian blinds:												
	Number of establishments.....	916	29	25	4	887	262	625	287	629	430	196	3
	Number of employees.....	9,416	1,516	1,511	4	7,899	4,836	3,063	6,348	3,067	1,824	1,222	20
2591	Restaurant furniture:												
	Number of establishments.....	163	2	2	...	161	66	95	68	95	51	43	1
	Number of employees.....	3,401	(D)	(D)	...	(D)	(D)	959	2,442	959	(D)	516	(D)
2599	Furniture and fixtures, n.e.c.:												
	Number of establishments.....	52	2	2	...	50	26	24	28	24	10	13	1
	Number of employees.....	810	(D)	(D)	...	(D)	(D)	253	557	253	(D)	200	(D)
26	Pulp, paper and products:												
	Number of establishments....	5,004	1,773	1,760	13	3,231	2,420	811	4,180	824	432	386	6
	All employees:												
	Number.....	530,210	397,200	396,113	1,086	133,010	121,738	11,272	517,852	12,358	3,882	8,121	355
	Payroll.....\$1,000..	2,217,420	1,706,772	1,702,822	3,949	510,648	478,316	32,332	2,181,138	36,281	(D)	24,469	(D)
	Production workers:												
	Number.....	435,727	325,911	324,981	930	109,816	99,895	9,921	424,876	10,851	3,402	7,143	306
	Wages.....\$1,000..	1,656,720	1,301,455	1,298,239	3,216	355,265	328,767	26,497	1,627,006	29,714	(D)	20,164	(D)
	Value added by manufacture.....do..	4,580,944	3,693,382	3,689,017	6,365	885,562	821,855	63,706	4,510,872	70,072	(D)	48,147	(D)
	Capital expenditures, new.....do..	532,723	472,047	471,598	449	60,676	57,296	3,380	528,894	3,829	(D)	2,395	(D)
2611	Pulp mills:												
	Number of establishments.....	252	237	235	2	15	14	1	249	3	1	1	1
	Number of employees.....	57,672	56,143	(D)	(D)	1,529	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2612	Paper and paperboard mills:												
	Number of establishments.....	589	427	425	2	162	158	4	583	6	2	2	2
	Number of employees.....	142,191	122,154	(D)	(D)	20,037	(D)	(D)	141,645	546	(D)	(D)	(D)
2613	Building paper and board mills:												
	Number of establishments.....	91	78	78	...	13	12	1	90	1	1	...	...
	Number of employees.....	16,391	15,731	15,731	...	660	(D)	(D)	(D)	(D)	(D)	...	...
2641	Paper coating and glazing:												
	Number of establishments.....	277	85	84	1	192	143	49	227	50	27	23	...
	Number of employees.....	27,697	21,372	(D)	(D)	6,324	(D)	(D)	27,312	384	148	236	...
2651	Envelopes:												
	Number of establishments.....	196	49	49	...	147	121	26	170	26	18	8	...
	Number of employees.....	15,902	7,272	7,272	...	8,629	8,196	433	15,469	433	260	173	...
2661	Paper bags:												
	Number of establishments.....	381	111	110	1	270	203	67	313	68	.37	31	...
	Number of employees.....	33,326	24,294	(D)	(D)	9,032	(D)	(D)	32,533	793	271	521	...
2671	Paperboard boxes:												
	Number of establishments.....	1,704	429	429	...	1,275	962	313	1,391	313	144	169	...
	Number of employees.....	132,964	77,642	77,642	...	55,322	49,259	6,063	126,901	6,063	1,736	4,327	...

See footnotes at end of table.

TYPE OF ORGANIZATION

204-9

GENERAL STATISTICS FOR OPERATING MANUFACTURING ESTABLISHMENTS CLASSIFIED BY TYPE OF OPERATION AND LEGAL ORGANIZATION,
BY MAJOR INDUSTRY GROUPS AND INDUSTRIES: 1954--Continued

Code	Major industry group and industry	All establishments	Type of operation ¹						Type of ownership or control ¹				
			Multiunit			Single unit			Corporate	Noncorporate			
			Total	Corporate ownership or control	Noncorporate ownership	Total	Corporate ownership or control	Noncorporate ownership		Total	Individual	Partnership	Other ²
26	Pulp, paper and products-- Continued												
2674	Fiber cans, tubes, drums, etc.												
	Number of establishments.....	184	53	53	...	131	95	36	148	36	16	20	...
	Number of employees.....	12,088	7,951	7,951	...	4,137	3,417	719	11,369	719	64	655	...
2691	Die-cut paper and board:												
	Number of establishments.....	352	51	50	1	301	179	122	229	123	70	53	...
	Number of employees.....	12,260	6,654	(D)	(D)	5,606	(D)	(D)	11,308	952	379	572	...
2693	Wallpaper:												
	Number of establishments.....	76	14	14	...	62	50	12	64	12	9	3	...
	Number of employees.....	3,636	1,508	1,508	...	2,128	2,019	109	3,527	109	49	59	...
2694	Pulp goods, pressed and molded:												
	Number of establishments.....	29	14	13	1	15	10	5	23	6	2	4	...
	Number of employees.....	2,882	2,597	(D)	(D)	286	(D)	(D)	2,793	90	(D)	(D)	...
2699	Paper and board products, n.e.c.:												
	Number of establishments.....	873	225	220	5	648	473	175	693	180	105	72	3
	Number of employees.....	73,195	53,880	53,717	163	19,314	17,470	1,844	71,187	2,007	835	1,160	11
27	Printing and publishing:												
	Number of establishments....	32,531	1,333	1,219	114	31,198	13,633	17,565	14,852	17,679	11,856	5,629	194
	All employees:												
	Number.....	804,386	280,793	277,165	3,628	523,592	418,509	105,083	695,674	108,711	56,105	46,939	5,667
	Payroll.....\$1,000..	3,625,133	1,377,179	1,361,300	15,879	2,247,953	1,900,751	347,201	3,262,052	363,081	170,807	166,149	26,123
	Production workers:												
	Number.....	499,666	161,528	159,634	1,894	338,137	261,678	76,459	421,312	78,353	41,105	34,542	2,706
	Wages.....\$1,000..	2,115,344	758,593	750,775	7,818	1,356,751	1,105,548	251,203	1,856,323	259,021	126,168	120,542	12,311
	Value added by manufacture.....do...	6,264,558	2,529,506	2,502,281	27,225	3,735,051	3,068,857	666,194	5,571,138	693,420	323,569	328,363	41,487
	Capital expenditures, new.....do...	236,897	82,396	81,989	407	154,501	116,712	37,789	198,700	38,197	20,043	16,521	1,631
2711	Newspapers:												
	Number of establishments.....	8,646	387	323	64	8,259	3,231	5,028	3,554	5,092	3,395	1,624	73
	Number of employees.....	281,799	103,700	101,463	2,237	178,098	145,821	32,277	247,284	34,514	17,897	13,584	3,032
2721	Periodicals:												
	Number of establishments.....	2,045	115	109	6	1,930	1,352	578	1,461	584	360	180	44
	Number of employees.....	62,428	28,613	28,578	34	33,814	30,416	3,398	58,995	3,432	1,477	1,371	582
2731	Books, publishing and printing:												
	Number of establishments.....	814	68	65	3	746	528	218	593	221	129	83	9
	Number of employees.....	34,704	14,858	14,318	540	19,845	18,225	1,619	32,543	2,160	634	817	708
2732	Book printing:												
	Number of establishments.....	598	31	30	1	567	274	293	304	294	175	115	4
	Number of employees.....	22,695	9,585	(D)	(D)	13,110	(D)	(D)	20,821	1,873	799	1,056	17
2741	Miscellaneous publishing:												
	Number of establishments.....	946	72	72	...	874	506	368	578	368	248	112	8
	Number of employees.....	18,378	8,929	8,929	...	9,448	7,235	2,213	16,164	2,213	1,040	919	253
2751	Commercial printing:												
	Number of establishments.....	12,073	331	314	17	11,742	4,281	7,461	4,595	7,478	5,230	2,211	37
	Number of employees.....	200,233	65,223	64,928	295	135,009	97,971	37,037	162,899	37,333	21,472	15,490	369
2761	Lithographing:												
	Number of establishments.....	2,924	149	142	7	2,775	1,395	1,380	1,537	1,387	838	539	10
	Number of employees.....	77,717	20,441	20,363	78	57,276	46,989	10,286	67,352	10,365	4,576	5,329	459
2771	Greeting cards:												
	Number of establishments.....	294	27	25	2	267	144	123	169	125	82	43	...
	Number of employees.....	21,347	11,801	(D)	(D)	9,545	(D)	(D)	20,663	683	409	273	...
2781	Bookbinding:												
	Number of establishments.....	730	18	16	2	712	277	435	293	437	295	141	1
	Number of employees.....	17,178	2,964	(D)	(D)	14,214	(D)	(D)	12,999	4,178	(D)	2,254	(D)
2782	Blankbooks and paper ruling:												
	Number of establishments.....	334	16	15	1	318	137	181	152	182	119	63	...
	Number of employees.....	8,624	2,593	(D)	(D)	6,031	(D)	(D)	7,340	1,283	546	737	...
2783	Loose-leaf binders and devices:												
	Number of establishments.....	154	13	13	...	141	69	72	82	72	54	18	...
	Number of employees.....	8,199	(D)	(D)	...	(D)	(D)	489	7,709	489	321	167	...
2789	Miscellaneous bookbinding work:												
	Number of establishments.....	201	4	4	...	197	76	121	80	121	81	40	...
	Number of employees.....	3,303	(D)	(D)	...	(D)	(D)	1,138	2,164	1,138	490	648	...
2791	Typesetting:												
	Number of establishments.....	1,081	20	18	2	1,061	432	629	450	631	420	208	3
	Number of employees.....	14,550	1,009	(D)	(D)	13,541	(D)	(D)	10,518	4,032	2,233	1,704	95
2792	Engraving and plate printing:												
	Number of establishments.....	567	13	11	2	554	244	310	255	312	217	95	...
	Number of employees.....	7,510	1,737	(D)	(D)	5,773	(D)	(D)	5,750	1,760	1,038	722	...
2793	Photoengraving:												
	Number of establishments.....	891	36	32	4	855	530	325	562	329	185	139	5
	Number of employees.....	17,711	2,309	2,263	46	15,401	12,533	2,867	14,797	2,913	1,127	1,653	133

See footnotes at end of table.

MANUFACTURES—SUMMARY STATISTICS

GENERAL STATISTICS FOR OPERATING MANUFACTURING ESTABLISHMENTS CLASSIFIED BY TYPE OF OPERATION AND LEGAL ORGANIZATION,
BY MAJOR INDUSTRY GROUPS AND INDUSTRIES: 1954--Continued

Code	Major industry group and industry	All establishments	Type of operation ¹						Type of ownership or control ¹				
			Multiunit			Single unit			Corporate	Noncorporate			
			Total	Corporate ownership or control	Noncorporate ownership	Total	Corporate ownership or control	Noncorporate ownership		Total	Individual	Partnership	Other ²
27	Printing and publishing--Continued												
2794	Electrotyping and stereotyping:												
	Number of establishments.....	233	33	30	3	200	157	43	187	46	28	18	...
	Number of employees.....	8,005	2,781	2,756	25	5,223	4,911	312	7,667	337	127	210	...
28	Chemicals and products:												
	Number of establishments....	11,075	3,206	3,063	143	7,869	5,571	2,298	8,634	2,441	1,412	883	146
	All employees:												
	Number.....	739,389	611,086	605,728	5,358	128,303	113,396	14,906	719,124	20,264	6,189	8,819	5,256
	Payroll.....\$1,000..	3,407,199	2,875,248	2,854,483	20,765	531,951	484,735	47,215	3,339,219	67,980	17,184	30,681	20,115
	Production workers:												
	Number.....	501,272	416,636	412,543	4,093	84,636	73,757	10,879	486,300	14,972	4,572	6,192	4,208
	Wages.....\$1,000..	2,005,627	1,741,218	1,726,827	14,391	264,409	234,434	29,975	1,961,261	44,366	11,494	17,968	14,903
	Value added by manufacture.....do..	9,443,629	8,268,000	8,223,797	44,203	1,175,629	1,047,930	127,698	9,271,727	171,902	43,790	82,830	45,282
	Capital expenditures, new.....do..	926,613	853,856	838,249	15,606	72,757	64,539	8,217	902,789	23,824	2,777	4,092	16,954
2811	Sulfuric acid:												
	Number of establishments.....	47	45	45	...	2	2	...	47	...	...	...	...
	Number of employees.....	3,805	(D)	(D)	...	(D)	(D)	...	3,805	...	...	...	...
2812	Alkalies and chlorine:												
	Number of establishments.....	29	27	27	...	2	2	...	29	...	...	...	...
	Number of employees.....	20,440	(D)	(D)	...	(D)	(D)	...	20,440	...	...	...	...
2819	Inorganic chemicals, n.e.c.:												
	Number of establishments.....	442	247	243	4	195	135	60	378	64	40	23	1
	Number of employees.....	97,006	91,885	91,635	250	5,120	4,817	303	96,452	553	(D)	187	(D)
2821	Cyclic (coal-tar) crudes:												
	Number of establishments.....	43	36	36	...	7	7	...	43	...	...	...	...
	Number of employees.....	1,925	1,695	1,695	...	230	230	...	1,925	...	...	...	...
2822	Intermediates and organic colors:												
	Number of establishments.....	107	54	54	...	53	51	2	105	2	2	...	...
	Number of employees.....	32,748	30,275	30,275	...	2,472	(D)	(D)	(D)	(D)	(D)	...	...
2823	Plastics materials:												
	Number of establishments.....	206	101	101	...	105	98	7	199	7	2	5	...
	Number of employees.....	41,145	38,099	38,099	...	3,045	2,947	98	41,046	98	(D)	(D)	...
2824	Synthetic rubber:												
	Number of establishments.....	21	20	20	...	1	1	...	21	...	...	...	...
	Number of employees.....	8,531	(D)	(D)	...	(D)	(D)	...	8,531	...	...	...	...
2825	Synthetic fibers:												
	Number of establishments.....	46	38	38	...	8	8	...	46	...	...	...	...
	Number of employees.....	61,105	60,141	60,141	...	964	964	...	61,105	...	...	...	...
2826	Explosives:												
	Number of establishments.....	74	52	51	1	22	18	4	69	5	2	1	2
	Number of employees.....	32,478	31,801	(D)	(D)	677	(D)	(D)	31,066	1,412	(D)	(D)	(D)
2829	Organic chemicals, n.e.c.:												
	Number of establishments.....	275	147	147	...	128	104	24	251	24	16	8	...
	Number of employees.....	67,531	63,433	63,433	...	4,097	3,999	97	67,433	97	51	46	...
2831	Biological products:												
	Number of establishments.....	93	23	22	1	70	52	18	74	19	10	7	2
	Number of employees.....	3,965	2,483	(D)	(D)	1,481	(D)	(D)	3,751	213	(D)	119	(D)
2833	Medicinal chemicals (including botanicals):												
	Number of establishments.....	115	33	33	...	82	66	16	99	16	11	5	...
	Number of employees.....	11,541	10,697	10,697	...	843	733	110	11,431	110	52	57	...
2834	Pharmaceutical preparations:												
	Number of establishments.....	1,163	132	129	3	1,031	784	247	913	250	146	93	11
	Number of employees.....	76,555	58,980	58,962	18	17,574	15,964	1,610	74,926	1,629	551	1,019	58
2841	Soap and glycerin:												
	Number of establishments.....	289	52	52	...	237	157	80	209	80	53	27	...
	Number of employees.....	25,839	22,341	22,341	...	3,498	3,025	472	25,366	472	176	296	...
2842	Cleaning and polishing preparations:												
	Number of establishments.....	1,151	90	87	3	1,061	654	407	741	410	280	129	1
	Number of employees.....	18,026	6,913	6,886	26	11,113	9,200	1,912	16,087	1,939	(D)	1,004	(D)
2843	Sulfonated oils and assistants:												
	Number of establishments.....	103	14	14	...	89	72	17	86	17	13	4	...
	Number of employees.....	2,355	953	953	...	1,402	1,271	130	2,224	130	52	78	...
2851	Paints and varnishes:												
	Number of establishments.....	1,469	277	268	9	1,192	902	290	1,170	299	158	135	6
	Number of employees.....	56,580	34,341	34,153	188	22,239	20,009	2,229	54,162	2,418	796	1,482	139
2852	Inorganic color pigments:												
	Number of establishments.....	104	53	53	...	51	37	14	90	14	11	3	...
	Number of employees.....	12,182	11,207	11,207	...	975	880	95	12,087	95	65	29	...
2853	Whiting and fillers:												
	Number of establishments.....	98	24	24	...	74	50	24	74	24	14	9	1
	Number of employees.....	1,210	487	487	...	723	593	130	1,080	130	61	(D)	(D)

See footnotes at end of table.

GENERAL STATISTICS FOR OPERATING MANUFACTURING ESTABLISHMENTS CLASSIFIED BY TYPE OF OPERATION AND LEGAL ORGANIZATION,
BY MAJOR INDUSTRY GROUPS AND INDUSTRIES: 1954--Continued

Code	Major industry group and industry	All establishments	Type of operation ¹						Type of ownership or control ¹				
			Multiunit			Single unit			Corporate	Noncorporate			
			Total	Corporate ownership of control	Noncorporate ownership	Total	Corporate ownership or control	Noncorporate ownership		Total	Individual	Partnership	Other ²
28	Chemicals and products-- Continued												
2861	Hardwood distillation: Number of establishments..... Number of employees.....	34 1,627	7 752	7 752	... ...	27 874	12 772	15 102	19 1,524	15 102	9 63	6 39	......
2862	Softwood distillation: Number of establishments..... Number of employees.....	27 4,431	12 3,732	10 (D)	2 (D)	15 699	11 (D)	4 (D)	21 4,121	6 300	3 11	3 288	......
2863	Gum naval stores: Number of establishments..... Number of employees.....	26 516	12 315	12 315	... ...	14 201	8 102	6 99	20 417	6 99	2 (D)	4 (D)	... ...
2865	Tanning and dyeing materials: Number of establishments..... Number of employees.....	30 670	8 388	8 388	... ...	22 282	19 271	3 11	27 659	3 11	1 (D)	2 (D)	... ...
2871	Fertilizers: Number of establishments..... Number of employees.....	260 19,728	189 17,634	167 16,789	22 845	71 2,093	56 1,948	15 145	223 18,737	37 990	7 38	9 154	21 797
2872	Fertilizers, mixing only: Number of establishments..... Number of employees.....	580 12,040	225 7,134	176 6,032	49 1,101	355 4,906	256 3,930	99 976	432 9,962	148 2,078	53 331	47 614	48 1,132
2881	Cottonseed oil mills: Number of establishments..... Number of employees.....	286 13,665	177 9,437	171 9,167	6 270	109 4,228	87 3,370	22 858	258 12,537	28 1,128	8 199	8 179	12 750
2882	Linseed oil mills: Number of establishments..... Number of employees.....	12 1,263	10 (D)	9 (D)	1 (D)	2 (D)	2 (D)	... ...	11 (D)	1 (D)	... ...	... ...	1 (D)
2883	Soybean oil mills: Number of establishments..... Number of employees.....	88 6,922	58 6,022	52 5,824	6 198	30 899	25 732	5 167	77 6,556	11 366	1 (D)	... ...	10 (D)
2884	Vegetable oil mills, n.e.c.: Number of establishments..... Number of employees.....	51 2,460	15 1,440	14 (D)	1 (D)	36 1,020	28 (D)	8 (D)	42 2,375	9 85	2 (D)	6 57	1 (D)
2886	Grease and tallow: Number of establishments..... Number of employees.....	500 11,466	114 5,002	100 4,793	14 209	386 6,464	208 5,068	178 1,395	308 9,861	192 1,604	83 529	99 958	10 116
2887	Fatty acids: Number of establishments..... Number of employees.....	15 1,891	10 1,725	10 1,725	... ...	5 166	4 (D)	1 (D)	14 (D)	1 (D)	... ...	1 (D)	... ...
2889	Animal oils, n.e.c.: Number of establishments..... Number of employees.....	61 2,294	15 819	14 (D)	1 (D)	46 1,474	37 (D)	9 (D)	51 2,171	10 123	4 (D)	5 79	1 (D)
2891	Printing ink: Number of establishments..... Number of employees.....	271 7,609	106 4,899	106 4,899	... ...	165 2,710	118 2,467	47 242	224 7,366	47 242	26 120	21 122	......
2892	Essential oils: Number of establishments..... Number of employees.....	37 547	6 293	6 293	... ...	31 254	22 207	9 47	28 500	9 47	6 38	3 9	......
2893	Toilet preparations: Number of establishments..... Number of employees.....	710 24,809	71 15,889	69 (D)	2 (D)	639 8,920	457 (D)	182 (D)	526 23,801	184 1,008	116 (D)	66 497	2 (D)
2894	Glue and gelatin: Number of establishments..... Number of employees.....	230 6,753	58 4,533	56 (D)	2 (D)	172 2,219	124 (D)	48 (D)	180 6,467	50 286	32 103	15 107	3 74
2895	Carbon black: Number of establishments..... Number of employees.....	47 3,410	44 3,292	44 3,292	... ...	3 117	3 117	... ...	47 3,410	......	......	......	......
2896	Compressed and liquefied gases: Number of establishments..... Number of employees.....	428 10,363	353 9,084	351 (D)	2 (D)	75 1,279	63 (D)	12 (D)	414 10,242	14 121	5 66	8 (D)	1 (D)
2897	Insecticides and fungicides: Number of establishments..... Number of employees.....	265 6,510	95 4,659	90 4,632	5 27	170 1,851	124 1,505	46 345	214 6,137	51 373	27 108	19 237	5 27
2898	Salt: Number of establishments..... Number of employees.....	38 4,017	17 3,496	15 (D)	2 (D)	21 520	12 (D)	9 (D)	27 3,929	11 87	8 74	2 (D)	1 (D)
2899	Chemical products, n.e.c.: Number of establishments..... Number of employees.....	1,204 21,415	139 11,374	132 11,030	7 344	1,065 10,041	695 8,527	370 1,513	827 19,558	377 1,857	261 958	110 862	6 35

See footnotes at end of table.

MANUFACTURES—SUMMARY STATISTICS

GENERAL STATISTICS FOR OPERATING MANUFACTURING ESTABLISHMENTS CLASSIFIED BY TYPE OF OPERATION AND LEGAL ORGANIZATION,
BY MAJOR INDUSTRY GROUPS AND INDUSTRIES: 1954--Continued

Code	Major industry group and industry	All establishments	Type of operation ¹						Type of ownership or control ¹				
			Multiunit			Single unit			Corporate	Noncorporate			
			Total	Corporate ownership or control	Noncorporate ownership	Total	Corporate ownership or control	Noncorporate ownership		Total	Individual	Partnership	Other ²
29	Petroleum and coal products:												
	Number of establishments....	1,381	663	637	26	718	559	159	1,196	185	93	80	12
	All employees:												
	Number.....	215,843	197,362	195,465	1,897	18,480	17,197	1,283	212,663	3,180	558	1,027	1,595
	Payroll.....\$1,000..	1,101,814	1,013,419	1,004,312	9,107	88,394	83,439	4,955	1,087,752	14,062	2,024	4,225	7,813
	Production workers:												
	Number.....	163,811	151,453	150,030	1,423	12,357	11,469	888	161,499	2,311	422	634	1,255
	Wages.....\$1,000..	778,408	727,731	721,132	6,598	50,677	47,617	3,059	768,750	9,658	1,366	2,315	5,976
	Value added by manufacture.....do..	2,582,613	2,391,827	2,368,217	23,610	190,786	178,578	12,207	2,546,796	35,817	4,919	10,225	20,673
	Capital expenditures, new.....do..	753,184	730,557	728,640	1,916	22,627	21,670	956	750,311	2,873	328	799	1,745
2911	Petroleum refining:												
	Number of establishments.....	409	259	245	14	150	113	37	358	51	17	24	10
	Number of employees.....	153,072	146,102	144,272	1,830	6,970	6,610	359	150,882	2,189	(D)	491	(D)
2931	Beehive coke ovens:												
	Number of establishments.....	40	26	26	...	14	8	6	34	6	2	4	...
	Number of employees.....	594	(D)	(D)	...	(D)	(D)	41	553	41	(D)	(D)	...
2932	Byproduct coke ovens:												
	Number of establishments.....	79	77	77	...	2	2	...	79	...	...	...	...
	Number of employees.....	31,909	(D)	(D)	...	(D)	(D)	...	31,909	...	...	...	...
2951	Paving mixtures and blocks:												
	Number of establishments.....	326	108	99	9	218	187	31	286	40	24	16	...
	Number of employees.....	4,367	1,294	1,259	35	3,073	2,843	229	4,102	264	136	128	...
2952	Roofing felts and coatings:												
	Number of establishments.....	197	123	123	...	74	49	25	172	25	15	10	...
	Number of employees.....	15,730	14,464	14,464	...	1,265	1,045	220	15,510	220	117	103	...
2992	Lubricants, n.e.c.:												
	Number of establishments.....	283	50	47	3	233	178	55	225	58	32	24	2
	Number of employees.....	8,159	2,726	2,694	31	5,433	5,050	383	7,745	414	(D)	226	(D)
2999	Petroleum and coal products, n.e.c.:												
	Number of establishments.....	47	20	20	...	27	22	5	42	5	3	2	...
	Number of employees.....	2,009	1,022	1,022	...	987	938	49	1,960	49	(D)	(D)	...
30	Rubber products:												
	Number of establishments....	1,406	350	343	7	1,056	702	354	1,045	361	226	131	4
	All employees:												
	Number.....	246,526	196,536	196,395	140	49,990	46,538	3,452	242,933	3,593	1,546	1,987	59
	Payroll.....\$1,000..	1,059,337	865,480	865,046	434	193,857	183,253	10,604	1,048,299	11,038	4,321	6,477	239
	Production workers:												
	Number.....	196,238	156,264	156,165	99	39,974	37,137	2,837	193,301	2,937	1,246	1,641	49
	Wages.....\$1,000..	775,499	642,529	642,233	296	132,970	125,076	7,894	767,309	8,190	3,185	4,836	167
	Value added by manufacture.....do..	1,903,702	1,578,286	1,577,307	978	325,416	304,487	20,929	1,881,794	21,908	8,927	12,663	317
	Capital expenditures, new.....do..	128,431	110,000	109,961	38	18,431	16,697	1,733	126,659	1,772	876	874	21
3011	Tires and inner tubes:												
	Number of establishments.....	49	41	41	...	8	6	2	47	2	1	1	...
	Number of employees.....	92,748	91,680	91,680	...	1,068	(D)	(D)	(D)	(D)	(D)	(D)	...
3021	Rubber footwear:												
	Number of establishments.....	22	13	13	...	9	8	1	21	1	1	...	...
	Number of employees.....	18,322	15,653	15,653	...	2,668	(D)	(D)	(D)	(D)	(D)	...	...
3031	Reclaimed rubber:												
	Number of establishments.....	20	11	11	...	9	6	3	17	3	1	1	1
	Number of employees.....	2,953	2,521	2,521	...	432	384	48	2,905	48	(D)	(D)	(D)
3099	Rubber industries, n.e.c.:												
	Number of establishments.....	1,315	285	278	7	1,030	682	348	960	355	223	129	3
	Number of employees.....	132,503	86,681	86,540	140	45,822	42,434	3,387	128,975	3,528	1,533	(D)	(D)
31	Leather and leather goods products:												
	Number of establishments....	4,845	600	585	15	4,245	2,582	1,663	3,167	1,678	1,009	663	6
	All employees:												
	Number.....	356,578	154,588	153,986	602	201,989	180,405	21,584	334,391	22,186	7,763	14,273	149
	Payroll.....\$1,000..	1,027,314	439,170	437,333	1,837	588,144	535,728	52,416	973,061	54,293	17,469	36,311	473
	Production workers:												
	Number.....	321,160	140,674	140,132	542	180,486	160,893	19,593	301,024	20,136	7,028	12,981	127
	Wages.....\$1,000..	833,693	369,884	368,339	1,545	463,809	418,693	45,116	787,032	46,661	15,147	31,207	307
	Value added by manufacture.....do..	1,637,417	759,956	756,818	3,137	877,460	787,069	90,391	1,543,888	93,529	29,517	64,131	...
	Capital expenditures, new.....do..	28,052	12,956	12,869	87	15,096	13,037	2,059	25,906	2,146	638	1,501	7
3111	Leather tanning and finishing:												
	Number of establishments.....	579	105	102	3	474	350	124	452	127	69	56	2
	Number of employees.....	43,468	21,550	21,450	100	21,918	19,789	2,128	41,239	2,228	(D)	1,659	(D)
3121	Industrial leather belting:												
	Number of establishments.....	136	23	20	3	113	80	33	100	36	19	17	...
	Number of employees.....	4,576	3,036	2,937	98	1,540	1,376	163	4,314	262	67	194	...

See footnotes at end of table.

TYPE OF ORGANIZATION

204-13

GENERAL STATISTICS FOR OPERATING MANUFACTURING ESTABLISHMENTS CLASSIFIED BY TYPE OF OPERATION AND LEGAL ORGANIZATION,
BY MAJOR INDUSTRY GROUPS AND INDUSTRIES: 1954--Continued

Code	Major industry group and industry	All establishments	Type of operation ¹						Type of ownership or control ¹				
			Multiunit			Single unit			Corporate	Noncorporate			
			Total	Corporate ownership or control	Noncorporate ownership	Total	Corporate ownership or control	Noncorporate ownership		Total	Individual	Partnership	Other ²
31	Leather and leather goods products--Continued												
3131	Footwear cut stock:												
	Number of establishments.....	563	72	70	2	491	321	170	391	172	107	65	...
	Number of employees.....	20,059	6,845	(D)	(D)	13,214	(D)	(D)	17,852	2,206	687	1,519	...
3141	Footwear, except rubber:												
	Number of establishments.....	1,196	317	316	1	879	695	184	1,011	185	113	72	...
	Number of employees.....	219,375	112,106	(D)	(D)	107,269	(D)	(D)	214,928	4,447	1,853	2,594	...
3142	House slippers:												
	Number of establishments.....	173	10	10	...	163	117	46	127	46	27	19	...
	Number of employees.....	10,879	2,162	2,162	...	8,717	8,150	567	10,312	567	178	388	...
3151	Leather dress gloves:												
	Number of establishments.....	143	6	6	...	137	65	72	71	72	44	28	...
	Number of employees.....	4,438	613	613	...	3,825	2,841	983	3,454	983	287	696	...
3152	Leather work gloves:												
	Number of establishments.....	96	10	10	...	86	38	48	48	48	27	21	...
	Number of employees.....	2,479	944	944	...	1,535	1,144	391	2,088	391	167	223	...
3161	Luggage:												
	Number of establishments.....	497	14	14	...	483	260	223	274	223	113	109	1
	Number of employees.....	15,856	3,021	3,021	...	12,835	10,170	2,664	13,191	2,664	(D)	1,946	(D)
3171	Handbags and purses:												
	Number of establishments.....	714	18	17	1	696	382	314	399	315	178	136	1
	Number of employees.....	22,881	2,084	(D)	(D)	20,797	(D)	(D)	17,838	5,042	(D)	3,285	(D)
3172	Small leather goods:												
	Number of establishments.....	259	10	9	1	249	101	148	110	149	94	54	1
	Number of employees.....	6,663	1,434	(D)	(D)	5,229	(D)	(D)	5,296	1,367	(D)	802	(D)
3192	Saddlery, harness, and whips:												
	Number of establishments.....	106	6	4	2	100	29	71	33	73	54	19	...
	Number of employees.....	1,289	384	(D)	(D)	905	(D)	(D)	870	418	177	241	...
3199	Leather goods, n.e.c.:												
	Number of establishments.....	383	9	7	2	374	144	230	151	232	164	67	1
	Number of employees.....	4,611	409	(D)	(D)	4,201	(D)	(D)	3,004	1,607	(D)	722	(D)
32	Stone, clay, and glass products:												
	Number of establishments....	11,162	1,796	1,688	108	9,366	4,090	5,276	5,778	5,384	3,380	1,954	50
	All employees:												
	Number.....	491,814	315,563	312,333	3,230	176,250	139,875	36,375	452,208	39,605	18,584	19,905	1,115
	Payroll.....\$1,000..	1,938,085	1,323,352	1,313,035	10,317	614,732	513,594	101,138	1,826,630	111,455	48,616	58,839	3,999
	Production workers:												
	Number.....	412,031	265,167	262,404	2,763	146,863	116,358	30,504	378,763	33,267	15,505	16,794	968
	Wages.....\$1,000..	1,496,029	1,044,851	1,036,708	8,142	451,178	370,651	80,526	1,407,360	88,668	38,952	46,805	2,910
	Value added by manufacture.....do..	3,821,659	2,800,836	2,781,859	18,977	1,020,823	828,796	192,027	3,610,655	211,004	87,710	116,148	7,144
	Capital expenditures, new.....do..	300,647	228,552	226,801	1,750	72,095	53,863	18,232	280,664	19,983	9,574	10,030	377
3211	Flat glass:												
	Number of establishments.....	32	22	22	...	10	10	...	32	...	...	...	...
	Number of employees.....	24,559	23,091	23,091	...	1,468	1,468	...	24,559	...	...	...	...
3221	Glass containers:												
	Number of establishments.....	85	65	65	...	20	19	1	84	1	1	...	...
	Number of employees.....	49,410	42,096	42,096	...	7,314	(D)	(D)	(D)	(D)	(D)	...	...
3229	Pressed and blown glass, n.e.c.:												
	Number of establishments.....	287	51	50	1	236	125	111	175	112	66	46	...
	Number of employees.....	41,924	30,279	(D)	(D)	11,644	(D)	(D)	40,823	1,100	228	772	...
3231	Products of purchased glass:												
	Number of establishments.....	859	52	51	1	807	392	415	443	416	278	134	4
	Number of employees.....	21,614	9,666	(D)	(D)	11,948	(D)	(D)	18,806	2,808	1,448	1,352	7
3241	Cement, hydraulic:												
	Number of establishments.....	162	140	140	...	22	22	...	162	...	...	...	...
	Number of employees.....	39,769	35,010	35,010	...	4,759	4,759	...	39,769	...	...	...	...
3251	Brick and hollow tile:												
	Number of establishments.....	610	216	202	14	394	288	106	490	120	55	61	4
	Number of employees.....	32,426	16,170	15,537	633	16,256	14,120	2,135	29,658	2,768	883	1,673	212
3253	Floor and wall tile:												
	Number of establishments.....	49	23	22	1	26	16	10	38	11	6	4	1
	Number of employees.....	11,265	8,217	(D)	(D)	3,048	(D)	(D)	10,775	490	(D)	220	(D)
3254	Sewer pipe:												
	Number of establishments.....	66	43	42	1	23	22	1	64	2	2	...	...
	Number of employees.....	9,637	6,277	(D)	(D)	3,359	(D)	(D)	(D)	(D)	(D)	...	...
3255	Clay refractories:												
	Number of establishments.....	177	106	104	2	71	54	17	158	19	11	7	1
	Number of employees.....	14,463	11,941	(D)	(D)	2,522	(D)	(D)	14,107	355	(D)	127	(D)
3259	Structural clay products, n.e.c												
	Number of establishments.....	151	27	24	3	124	53	71	77	74	37	37	...
	Number of employees.....	5,022	2,219	2,159	60	2,802	2,062	740	4,221	800	337	463	...
3261	Vitreous plumbing fixtures:												
	Number of establishments.....	37	22	22	...	15	13	2	35	2	1	1	...
	Number of employees.....	9,200	7,875	7,875	...	1,325	(D)	(D)	(D)	(D)	(D)	(D)	...

See footnotes at end of table.

MANUFACTURES—SUMMARY STATISTICS

GENERAL STATISTICS FOR OPERATING MANUFACTURING ESTABLISHMENTS CLASSIFIED BY TYPE OF OPERATION AND LEGAL ORGANIZATION,
BY MAJOR INDUSTRY GROUPS AND INDUSTRIES: 1954--Continued

Code	Major industry group and industry	All establishments	Type of operation ¹						Type of ownership or control ¹				
			Multunit			Single unit			Corporate	Noncorporate			
			Total	Corporate ownership or control	Noncorporate ownership	Total	Corporate ownership or control	Noncorporate ownership		Total	Individual	Partnership	Other ²
32	Stone, clay, and glass products--Continued												
3262	Vitreous-china food utensils:												
	Number of establishments.....	34	8	7	1	26	20	6	27	7	4	3	...
	Number of employees.....	8,704	4,513	(D)	(D)	4,191	(D)	(D)	8,427	276	60	216	...
3263	Earthenware food utensils:												
	Number of establishments.....	47	7	7	...	40	30	10	37	10	5	4	1
	Number of employees.....	13,335	3,866	3,866	...	9,469	9,307	162	13,173	162	(D)	102	(D)
3264	Porcelain electrical supplies:												
	Number of establishments.....	45	13	13	...	32	27	5	40	5	1	3	1
	Number of employees.....	9,550	5,774	5,774	...	3,776	3,295	480	9,070	480	(D)	(D)	(D)
3265	China decorating for the trade:												
	Number of establishments.....	50	...	...	...	50	20	30	20	30	17	13	...
	Number of employees.....	497	...	...	...	497	195	301	195	301	66	235	...
3269	Pottery products, n.e.c.:												
	Number of establishments.....	654	12	11	1	642	197	445	208	446	289	154	3
	Number of employees.....	9,647	1,228	(D)	(D)	8,419	(D)	(D)	6,249	3,397	1,684	1,702	10
3271	Concrete products:												
	Number of establishments.....	5,090	371	315	56	4,719	1,666	3,053	1,981	3,109	1,989	1,103	17
	Number of employees.....	60,410	14,027	13,088	939	46,382	29,197	17,185	42,285	18,124	9,463	8,500	160
3272	Gypsum products:												
	Number of establishments.....	90	53	53	...	37	18	19	71	19	14	4	1
	Number of employees.....	10,966	10,574	10,574	...	392	323	69	10,897	69	15	(D)	(D)
3274	Lime:												
	Number of establishments.....	145	71	68	3	74	32	42	100	45	24	20	1
	Number of employees.....	7,989	6,677	6,497	180	1,311	1,059	251	7,556	432	(D)	342	(D)
3275	Mineral wool:												
	Number of establishments.....	85	36	36	...	49	36	13	72	13	9	3	1
	Number of employees.....	10,244	8,594	8,594	...	1,650	1,401	249	9,995	249	120	(D)	(D)
3281	Cut-stone and stone products:												
	Number of establishments.....	977	73	57	16	904	417	487	474	503	311	186	6
	Number of employees.....	21,576	7,719	7,345	374	13,857	9,905	3,952	17,250	4,326	2,072	2,157	96
3291	Abrasive products:												
	Number of establishments.....	312	68	68	...	244	165	79	233	79	43	34	2
	Number of employees.....	22,345	16,824	16,824	...	5,521	4,925	595	21,749	595	274	(D)	(D)
3292	Asbestos products:												
	Number of establishments.....	110	62	61	1	48	40	8	101	9	6	3	...
	Number of employees.....	21,977	19,679	(D)	(D)	2,298	(D)	(D)	21,903	74	31	43	...
3293	Gaskets and asbestos insulations:												
	Number of establishments.....	237	34	34	...	203	134	69	168	69	39	29	1
	Number of employees.....	12,807	8,370	8,370	...	4,437	3,838	599	12,208	599	274	(D)	(D)
3295	Minerals: ground or treated:												
	Number of establishments.....	353	122	117	5	231	155	76	272	81	50	26	5
	Number of employees.....	7,699	4,398	4,295	103	3,300	2,746	554	7,041	657	341	263	53
3297	Nonclay refractories:												
	Number of establishments.....	77	54	54	...	23	19	4	73	4	1	3	...
	Number of employees.....	8,559	7,454	7,454	...	1,105	1,073	32	8,527	32	(D)	(D)	...
3298	Statuary and art goods:												
	Number of establishments.....	220	...	...	...	220	47	173	47	173	108	64	1
	Number of employees.....	1,726	...	...	...	1,726	779	947	779	947	476	(D)	(D)
3299	Nonmetallic mineral products, n.e.c.:												
	Number of establishments.....	121	45	43	2	76	53	23	96	25	13	12	...
	Number of employees.....	4,483	3,018	(D)	(D)	1,465	(D)	(D)	4,082	401	218	182	...
33	Primary metal industries:												
	Number of establishments....	5,838	1,363	1,340	23	4,475	2,949	1,526	4,289	1,549	880	647	22
	All employees:												
	Number.....	1,117,059	915,072	913,114	1,958	201,986	182,886	19,100	1,096,000	21,058	8,033	11,760	1,264
	Payroll.....\$1,000....	5,097,466	4,229,558	4,221,809	7,748	867,908	800,175	67,732	5,021,985	75,481	26,551	43,935	4,994
	Production workers:												
	Number.....	938,511	766,659	764,879	1,779	171,852	154,717	17,135	919,597	18,914	7,214	10,586	1,113
	Wages.....\$1,000....	3,985,548	3,328,920	3,322,203	6,716	656,627	598,668	57,959	3,920,872	64,676	22,950	37,905	3,819
	Value added by manufacture.....do..	9,372,910	8,001,378	7,984,390	16,987	1,371,532	1,246,492	125,040	9,230,882	142,028	46,686	78,656	16,684
	Capital expenditures, new.....do..	831,095	743,636	743,284	352	87,458	82,140	5,318	825,424	5,670	1,985	3,331	353
3312	Blast furnaces and steel mills:												
	Number of establishments.....	289	258	256	2	31	31	...	287	2	...	...	2
	Number of employees.....	518,690	505,429	(D)	(D)	13,260	13,260	...	(D)	(D)	...	...	(D)
3313	Electrometallurgical products:												
	Number of establishments.....	31	27	27	...	4	3	1	30	1	1	...	...
	Number of employees.....	11,361	11,009	11,009	...	352	(D)	(D)	(D)	(D)	(D)	...	...
3321	Gray-iron foundries:												
	Number of establishments.....	1,414	246	241	5	1,168	806	362	1,047	367	194	172	1
	Number of employees.....	133,914	70,573	70,057	516	63,340	56,340	6,999	126,397	7,516	(D)	4,320	(D)

See footnotes at end of table.

TYPE OF ORGANIZATION

204-15

GENERAL STATISTICS FOR OPERATING MANUFACTURING ESTABLISHMENTS CLASSIFIED BY TYPE OF OPERATION AND LEGAL ORGANIZATION,
BY MAJOR INDUSTRY GROUPS AND INDUSTRIES: 1954--Continued

Code	Major industry group and industry	All establishments	Type of operation ¹						Type of ownership or control ¹				
			Multiunit			Single unit			Corporate	Noncorporate			
			Total	Corporate ownership or control	Noncorporate ownership	Total	Corporate ownership or control	Noncorporate ownership		Total	Individual	Partnership	Other ²
33	Primary metal industries--Continued												
3322	Malleable-iron foundries:												
	Number of establishments.....	81	36	36	...	45	44	1	80	1	1	...	...
	Number of employees.....	23,378	(D)	(D)	...	(D)	(D)	(D)	(D)	(D)	(D)	...	...
3323	Steel foundries:												
	Number of establishments.....	239	85	84	1	154	135	19	219	20	10	10	...
	Number of employees.....	55,073	32,980	(D)	(D)	22,092	(D)	(D)	54,578	494	96	398	...
3331	Primary copper:												
	Number of establishments.....	27	27	27	...	...	...	...	27	...	...	...	...
	Number of employees.....	13,818	13,818	13,818	...	...	...	...	13,818	...	...	...	...
3332	Primary lead:												
	Number of establishments.....	13	13	13	...	...	...	...	13	...	...	...	...
	Number of employees.....	4,063	4,063	4,063	...	...	...	...	4,063	...	...	...	...
3333	Primary zinc:												
	Number of establishments.....	21	19	19	...	2	2	...	21	...	...	...	...
	Number of employees.....	10,470	(D)	(D)	...	(D)	(D)	...	10,470	...	...	...	...
3334	Primary aluminum:												
	Number of establishments.....	16	16	16	...	...	...	...	16	...	...	...	...
	Number of employees.....	20,626	20,626	20,626	...	...	...	...	20,626	...	...	...	...
3339	Primary nonferrous metals, n.e.c.:												
	Number of establishments.....	27	11	11	...	16	10	6	21	6	3	3	...
	Number of employees.....	5,519	4,410	4,410	...	1,108	1,077	31	5,487	31	15	16	...
3341	Secondary nonferrous metals:												
	Number of establishments.....	360	77	75	2	283	200	83	275	85	38	46	1
	Number of employees.....	15,775	9,871	(D)	(D)	5,904	(D)	(D)	14,953	822	(D)	531	(D)
3351	Copper rolling and drawing:												
	Number of establishments.....	89	51	51	...	38	34	4	85	4	2	2	...
	Number of employees.....	41,906	36,473	36,473	...	5,432	5,388	44	41,862	44	(D)	(D)	...
3352	Aluminum rolling and drawing:												
	Number of establishments.....	94	36	36	...	58	50	8	86	8	3	5	...
	Number of employees.....	36,803	33,600	33,600	...	3,203	2,880	323	36,480	323	36	286	...
3359	Rolling and drawing, n.e.c.:												
	Number of establishments.....	98	47	47	...	51	42	9	89	9	4	4	1
	Number of employees.....	10,381	8,879	8,879	...	1,501	1,397	104	10,277	104	15	(D)	(D)
3361	Nonferrous foundries:												
	Number of establishments.....	1,920	144	133	11	1,776	950	826	1,083	837	511	312	14
	Number of employees.....	73,487	33,904	33,020	884	39,583	31,636	7,946	64,657	8,830	3,189	5,112	529
3391	Iron and steel forgings:												
	Number of establishments.....	259	57	57	...	202	162	40	219	40	15	24	1
	Number of employees.....	39,771	26,040	26,040	...	13,731	13,163	567	39,204	567	(D)	286	(D)
3392	Wire drawing:												
	Number of establishments.....	198	101	101	...	97	78	19	179	19	12	7	...
	Number of employees.....	54,873	45,665	45,665	...	9,207	8,852	355	54,517	355	271	84	...
3393	Welded and heavy-riveted pipe:												
	Number of establishments.....	88	37	37	...	51	41	10	78	10	8	2	...
	Number of employees.....	22,085	17,053	17,053	...	5,031	4,936	95	21,990	95	(D)	(D)	...
3399	Primary metal industries, n.e.c.:												
	Number of establishments.....	574	75	73	2	499	361	138	434	140	78	60	2
	Number of employees.....	25,060	14,000	(D)	(D)	11,060	(D)	(D)	23,616	1,443	646	(D)	(D)
34	Fabricated metal products:												
	Number of establishments....	22,516	1,886	1,831	55	20,630	11,411	9,219	13,242	9,274	5,555	3,645	74
	All employees:												
	Number.....	1,019,406	499,051	497,216	1,835	520,355	439,558	80,797	936,774	82,632	34,457	46,297	1,877
	Payroll.....\$1,000..	4,397,337	2,226,659	2,219,196	7,463	2,170,678	1,889,195	281,483	4,108,391	288,946	113,619	167,468	7,858
	Production workers:												
	Number.....	821,172	400,105	398,588	1,516	421,067	352,579	68,488	751,168	70,004	29,049	39,434	1,521
	Wages.....\$1,000..	3,174,186	1,648,610	1,643,011	5,599	1,525,576	1,299,124	226,452	2,942,135	232,051	91,453	134,994	5,604
	Value added by manufacture.....do..	7,596,275	3,992,531	3,978,951	13,580	3,603,744	3,055,008	548,736	7,033,959	562,316	208,102	340,488	13,726
	Capital expenditures, new.....do..	432,491	271,025	270,672	353	161,466	134,315	27,151	404,987	27,504	12,120	14,975	409
3411	Tin cans and other tinware:												
	Number of establishments.....	227	149	148	1	78	52	26	200	27	18	9	...
	Number of employees.....	55,234	52,002	(D)	(D)	3,232	(D)	(D)	55,043	191	80	111	...
3421	Cutlery:												
	Number of establishments.....	182	17	17	...	165	110	55	127	55	32	23	...
	Number of employees.....	15,102	7,459	7,459	...	7,643	7,305	337	14,765	337	136	201	...
3422	Edge tools:												
	Number of establishments.....	247	16	16	...	231	131	100	147	100	62	38	...
	Number of employees.....	7,108	2,109	2,109	...	4,999	4,199	799	6,308	799	301	498	...
3423	Hand tools, n.e.c.:												
	Number of establishments.....	503	63	59	4	440	265	175	324	179	122	57	...
	Number of employees.....	23,385	11,250	11,218	32	12,134	10,874	1,260	22,092	1,292	593	699	...

See footnotes at end of table.

MANUFACTURES—SUMMARY STATISTICS

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Code	Major industry group and industry	All establishments	Type of operation ¹						Type of ownership or control ¹				
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			Total	Corporate ownership or control	Noncorporate ownership	Total	Corporate ownership or control	Noncorporate ownership		Total	Individual	Partnership	Other ²
34	Fabricated metal products-- Continued												
3424	Files:												
	Number of establishments.....	30	6	6	...	24	14	10	20	10	7	3	...
	Number of employees.....	2,904	(D)	(D)	...	(D)	(D)	44	2,860	44	24	19	...
3425	Hand saws and saw blades:												
	Number of establishments.....	99	15	15	...	84	57	27	72	27	17	10	...
	Number of employees.....	6,879	4,400	4,400	...	2,478	2,316	162	6,716	162	77	85	...
3429	Hardware, n.e.c.:												
	Number of establishments.....	869	91	87	4	778	485	293	572	297	178	118	1
	Number of employees.....	88,296	52,814	52,735	79	35,482	31,698	3,784	84,433	3,863	(D)	2,476	(D)
3431	Plumbing fixtures and fittings:												
	Number of establishments.....	321	30	30	...	291	204	87	234	87	44	43	...
	Number of employees.....	30,612	17,843	17,843	...	12,769	11,537	1,231	29,380	1,231	414	816	...
3439	Heating and cooking equipment, n.e.c.:												
	Number of establishments.....	899	141	141	...	758	555	203	696	203	127	75	1
	Number of employees.....	75,276	43,369	43,369	...	31,907	30,292	1,615	73,661	1,615	(D)	884	(D)
3441	Structural and ornamental work:												
	Number of establishments.....	2,917	207	202	5	2,710	1,376	1,334	1,578	1,339	844	485	10
	Number of employees.....	116,274	45,967	45,738	228	70,307	59,855	10,451	105,594	10,679	4,878	5,611	189
3442	Metal doors, sash and trim:												
	Number of establishments.....	1,106	81	79	2	1,025	714	311	793	313	168	143	2
	Number of employees.....	43,284	17,369	(D)	(D)	25,913	(D)	(D)	39,536	3,746	(D)	2,417	(D)
3443	Boiler shop products:												
	Number of establishments.....	977	122	118	4	855	553	302	671	306	168	134	4
	Number of employees.....	74,373	46,058	46,005	53	28,315	24,389	3,926	70,394	3,979	1,544	2,377	56
3444	Sheet-metal work:												
	Number of establishments.....	2,421	121	119	2	2,300	1,052	1,248	1,171	1,250	819	426	5
	Number of employees.....	50,190	11,098	(D)	(D)	39,092	(D)	(D)	41,196	8,993	4,892	4,035	66
3461	Vitreous-enameled products:												
	Number of establishments.....	51	7	7	...	44	38	6	45	6	3	3	...
	Number of employees.....	7,272	2,897	2,897	...	4,374	4,233	141	7,131	141	93	47	...
3463	Metal stampings:												
	Number of establishments.....	2,269	186	185	1	2,083	1,345	738	1,530	739	411	320	8
	Number of employees.....	128,200	61,626	(D)	(D)	66,574	(D)	(D)	120,400	7,800	3,045	4,662	92
3465	Enameling and lacquering:												
	Number of establishments.....	380	18	16	2	362	177	185	193	187	113	71	3
	Number of employees.....	5,503	540	(D)	(D)	4,963	(D)	(D)	4,011	1,492	800	648	43
3466	Galvanizing:												
	Number of establishments.....	133	7	6	1	126	74	52	80	53	32	20	1
	Number of employees.....	3,178	(D)	171	(D)	(D)	2,543	(D)	2,714	463	(D)	232	(D)
3467	Engraving on metal:												
	Number of establishments.....	269	2	2	...	267	84	183	86	183	146	37	...
	Number of employees.....	3,624	(D)	(D)	...	(D)	(D)	(D)	2,754	870	606	263	...
3468	Plating and polishing:												
	Number of establishments.....	2,451	74	63	11	2,377	1,048	1,329	1,111	1,340	768	558	14
	Number of employees.....	36,066	5,211	5,055	155	30,855	20,262	10,593	25,317	10,748	4,958	5,571	219
3471	Lighting fixtures:												
	Number of establishments.....	1,228	68	63	5	1,160	702	458	765	463	263	199	1
	Number of employees.....	45,078	18,239	18,231	8	26,838	21,985	4,853	40,217	4,861	(D)	3,226	(D)
3481	Nails and spikes:												
	Number of establishments.....	77	16	16	...	61	47	14	63	14	10	4	...
	Number of employees.....	2,701	1,187	1,187	...	1,514	1,375	139	2,562	139	92	47	...
3489	Wirework, n.e.c.:												
	Number of establishments.....	1,275	154	148	6	1,121	603	518	751	524	325	195	4
	Number of employees.....	59,929	29,297	29,069	228	30,632	26,062	4,570	55,131	4,798	2,089	2,660	48
3491	Metal barrels, drums, and pails:												
	Number of establishments.....	93	62	62	...	31	25	6	87	6	3	3	...
	Number of employees.....	10,585	8,589	8,589	...	1,995	1,917	78	10,507	78	10	67	...
3492	Safes and vaults:												
	Number of establishments.....	26	3	3	...	23	13	10	16	10	6	4	...
	Number of employees.....	3,442	(D)	(D)	...	(D)	(D)	64	3,378	64	34	30	...
3493	Steel springs:												
	Number of establishments.....	101	29	29	...	72	41	31	70	31	14	17	...
	Number of employees.....	7,078	4,929	4,929	...	2,149	1,819	329	6,749	329	67	262	...
3494	Bolts, nuts, washers, and rivets:												
	Number of establishments.....	457	96	95	1	361	253	108	348	109	56	48	5
	Number of employees.....	53,729	32,383	(D)	(D)	21,346	(D)	(D)	51,177	2,551	321	1,275	953
3495	Screw-machine products:												
	Number of establishments.....	1,795	30	28	2	1,765	861	904	889	906	491	407	8
	Number of employees.....	35,009	4,657	(D)	(D)	30,352	(D)	(D)	26,880	8,128	2,953	5,135	40
3496	Collapsible tubes:												
	Number of establishments.....	21	8	8	...	13	10	3	18	3	...	3	...
	Number of employees.....	4,302	2,260	2,260	...	2,042	1,903	139	4,163	139	...	139	...

See footnotes at end of table.

GENERAL STATISTICS FOR OPERATING MANUFACTURING ESTABLISHMENTS CLASSIFIED BY TYPE OF OPERATION AND LEGAL ORGANIZATION,
BY MAJOR INDUSTRY GROUPS AND INDUSTRIES: 1954--Continued

Code	Major industry group and industry	All establishments	Type of operation ¹						Type of ownership or control ¹				
			Multiunit			Single unit			Corporate	Noncorporate			
			Total	Corporate ownership or control	Noncorporate ownership	Total	Corporate ownership or control	Noncorporate ownership		Total	Individual	Partnership	Other ²
34	Fabricated metal products-- Continued												
3497	Metal foil: Number of establishments..... Number of employees.....	66 6,713	22 5,373	22 5,373	... ...	44 1,340	29 1,226	15 114	51 6,599	15 114	9 38	6 75	......
3499	Fabricated metal products, n.e.c.: Number of establishments..... Number of employees.....	1,026 18,069	45 4,716	41 4,648	4 68	981 13,353	493 10,445	488 2,907	534 15,093	492 2,975	299 1,191	186 1,716	7 67
35	Machinery, except electrical: Number of establishments.... All employees: Number..... Payroll.....\$1,000... Production workers: Number..... Wages.....\$1,000... Value added by manufacture.....do... Capital expenditures, new.....do...	25,601 1,541,675 7,190,563 1,171,323 4,979,972 12,338,923 713,808	2,118 965,776 4,490,683 721,685 3,102,698 7,797,910 504,141	2,036 963,469 4,481,501 719,810 3,095,737 7,780,068 503,544	82 2,307 9,182 1,785 6,961 17,842 597	23,483 575,899 2,699,880 449,638 1,877,274 4,541,013 209,667	12,310 493,198 2,368,187 379,811 1,607,077 3,909,893 172,730	11,173 82,701 331,693 69,827 270,197 631,120 36,937	14,346 1,456,667 6,849,688 1,099,620 4,702,814 11,689,961 676,273	11,255 85,008 340,875 71,703 277,158 648,962 37,535	6,966 38,995 144,733 32,550 116,647 262,990 17,710	4,213 44,968 192,280 38,330 157,802 379,186 19,369	76 1,044 3,861 821 2,707 6,784 455
3511	Steam engines and turbines: Number of establishments..... Number of employees.....	22 30,178	12 29,427	12 29,427	... ...	10 751	9 (D)	1 (D)	21 (D)	1 (D)	1 (D)	... ...	... ...
3519	Internal combustion engines: Number of establishments..... Number of employees.....	119 51,777	55 48,693	55 48,693	... ...	64 3,084	43 2,992	21 91	98 51,686	21 91	15 65	6 26	......
3521	Tractors: Number of establishments..... Number of employees.....	154 64,742	34 61,240	34 61,240	... ...	120 3,502	78 3,237	42 265	112 64,477	42 265	27 189	15 75	......
3522	Farm machinery (except tractors): Number of establishments..... Number of employees.....	1,206 74,376	127 50,718	122 50,471	5 246	1,079 23,658	573 19,561	506 4,096	695 70,033	511 4,343	304 1,657	202 2,459	5 226
3531	Construction and mining machinery: Number of establishments..... Number of employees.....	626 75,698	121 50,876	120 (D)	1 (D)	505 24,821	361 (D)	144 (D)	481 73,842	145 1,855	84 768	61 1,087	......
3532	Oil-field machinery and tools: Number of establishments..... Number of employees.....	345 33,687	76 25,072	76 25,072	... ...	269 8,614	172 7,408	97 1,206	248 32,480	97 1,206	59 (D)	37 753	1 (D)
3541	Machine tools: Number of establishments..... Number of employees.....	639 80,959	66 38,465	65 (D)	1 (D)	573 42,494	345 (D)	228 (D)	410 79,233	229 1,725	140 (D)	87 951	2 (D)
3542	Metalworking machinery: Number of establishments..... Number of employees.....	501 59,468	80 35,916	77 35,815	3 101	421 23,552	286 22,722	135 829	363 58,537	138 931	94 512	43 (D)	1 (D)
3544	Special dies and tools: Number of establishments..... Number of employees.....	4,377 77,418	76 15,249	68 15,063	8 186	4,301 62,169	2,018 45,180	2,283 16,989	2,086 60,243	2,291 17,175	1,296 7,180	983 9,906	12 87
3545	Metalworking machinery attach- ments: Number of establishments..... Number of employees.....	1,022 44,877	71 22,553	66 22,232	5 321	951 22,324	508 18,279	443 4,044	574 40,511	448 4,365	237 1,232	206 2,834	5 299
3551	Food-products machinery: Number of establishments..... Number of employees.....	672 33,205	77 16,570	72 16,531	5 39	595 16,634	376 15,079	219 1,555	448 31,610	224 1,594	154 963	66 615	4 16
3552	Textile machinery: Number of establishments..... Number of employees.....	535 36,595	54 21,801	53 (D)	1 (D)	481 14,794	306 (D)	175 (D)	359 34,981	176 1,614	114 954	61 (D)	1 (D)
3553	Woodworking machinery: Number of establishments..... Number of employees.....	249 11,973	24 5,270	24 5,270	... ...	225 6,702	142 5,864	83 838	166 11,134	83 838	53 456	30 381	......
3554	Paper-industries machinery: Number of establishments..... Number of employees.....	169 15,003	22 3,532	22 3,532	... ...	147 11,471	108 11,192	39 279	130 14,724	39 279	27 137	12 142	......
3555	Printing-trades machinery: Number of establishments..... Number of employees.....	358 21,960	50 13,825	50 13,825	... ...	308 8,135	189 7,370	119 765	239 21,195	119 765	78 397	40 (D)	1 (D)
3559	Special-industry machinery, n.e.c.: Number of establishments..... Number of employees.....	917 47,007	85 22,748	82 22,654	3 94	832 24,259	531 21,618	301 2,641	613 44,272	304 2,735	188 (D)	114 1,383	2 (D)
3561	Pumps and compressors: Number of establishments..... Number of employees.....	496 60,324	101 42,680	101 42,680	... ...	395 17,644	276 16,555	119 1,088	377 59,236	119 1,088	72 409	47 679	......
3562	Elevators and escalators: Number of establishments..... Number of employees.....	131 10,257	20 7,409	19 (D)	1 (D)	111 2,848	78 (D)	33 (D)	97 9,807	34 450	24 265	10 185	......

See footnotes at end of table.

MANUFACTURES—SUMMARY STATISTICS

GENERAL STATISTICS FOR OPERATING MANUFACTURING ESTABLISHMENTS CLASSIFIED BY TYPE OF OPERATION AND LEGAL ORGANIZATION,
BY MAJOR INDUSTRY GROUPS AND INDUSTRIES: 1954—Continued

Code	Major industry group and industry	All establishments	Type of operation ¹						Type of ownership or control ¹				
			Multiunit			Single unit			Corporate	Noncorporate			
			Total	Corporate ownership or control	Noncorporate ownership	Total	Corporate ownership or control	Noncorporate ownership		Total	Individual	Partnership	Other ²
35	Machinery, except electrical-- Continued												
3563	Conveyors:												
	Number of establishments.....	389	54	54	...	335	230	105	284	105	66	39	...
	Number of employees.....	32,370	19,854	19,854	...	12,515	11,512	1,003	31,367	1,003	488	514	...
3564	Blowers and fans:												
	Number of establishments.....	214	35	34	1	179	121	58	155	59	38	21	...
	Number of employees.....	18,125	11,677	(D)	(D)	6,448	(D)	(D)	17,457	667	319	348	...
3565	Industrial trucks and tractors:												
	Number of establishments.....	245	28	27	1	217	144	73	171	74	41	33	...
	Number of employees.....	15,797	9,000	(D)	(D)	6,797	(D)	(D)	15,018	779	298	480	...
3566	Power-transmission equipment:												
	Number of establishments.....	471	73	73	...	398	283	115	356	115	67	48	...
	Number of employees.....	49,580	29,399	29,399	...	20,180	18,385	1,795	47,784	1,795	1,034	760	...
3567	Industrial furnaces and ovens:												
	Number of establishments.....	167	20	20	...	147	102	45	122	45	31	14	...
	Number of employees.....	8,415	3,952	3,952	...	4,463	4,187	276	8,139	276	119	156	...
3568	Mechanical stokers:												
	Number of establishments.....	25	2	2	...	23	16	7	18	7	4	3	...
	Number of employees.....	1,118	(D)	(D)	...	(D)	(D)	37	1,080	37	9	28	...
3569	General industrial machinery, n.e.c.:												
	Number of establishments.....	466	67	65	2	399	274	125	339	127	88	36	3
	Number of employees.....	27,927	14,677	(D)	(D)	13,250	(D)	(D)	26,638	1,289	722	519	48
3571	Computing and related machines:												
	Number of establishments.....	84	34	34	...	50	35	15	69	15	5	10	...
	Number of employees.....	56,692	54,410	54,410	...	2,282	2,165	117	56,575	117	11	105	...
3572	Typewriters:												
	Number of establishments.....	18	10	10	...	8	7	1	17	1	...	1	...
	Number of employees.....	18,435	18,192	18,192	...	243	(D)	(D)	(D)	(D)	...	(D)	...
3576	Scales and balances:												
	Number of establishments.....	78	9	9	...	69	46	23	55	23	18	5	...
	Number of employees.....	5,381	2,643	2,643	...	2,737	2,594	142	5,238	142	105	37	...
3579	Office and store machines,n.e.c.:												
	Number of establishments.....	229	32	30	2	197	159	38	189	40	22	17	1
	Number of employees.....	20,785	(D)	13,233	(D)	(D)	(D)	(D)	(D)	(D)	113	159	(D)
3581	Domestic laundry equipment:												
	Number of establishments.....	56	26	26	...	30	25	5	51	5	2	3	...
	Number of employees.....	22,105	20,165	20,165	...	1,940	1,899	41	22,064	41	(D)	(D)	...
3582	Laundry and dry-cleaning machinery:												
	Number of establishments.....	104	11	11	...	93	68	25	79	25	11	14	...
	Number of employees.....	6,543	4,034	4,034	...	2,509	2,221	287	6,256	287	50	237	...
3583	Sewing machines:												
	Number of establishments.....	82	11	11	...	71	40	31	51	31	17	13	1
	Number of employees.....	12,414	9,844	9,844	...	2,569	2,315	254	12,159	254	172	(D)	(D)
3584	Vacuum cleaners:												
	Number of establishments.....	39	11	9	2	28	20	8	29	10	5	3	2
	Number of employees.....	8,383	6,897	(D)	(D)	1,486	(D)	(D)	8,210	173	(D)	65	(D)
3585	Refrigeration machinery:												
	Number of establishments.....	586	110	107	3	476	355	121	462	124	74	50	...
	Number of employees.....	128,283	97,295	97,026	269	30,987	29,394	1,593	126,420	1,862	700	1,161	...
3586	Measuring and dispensing pumps:												
	Number of establishments.....	32	11	11	...	21	16	5	27	5	3	2	...
	Number of employees.....	8,367	7,743	7,743	...	623	539	84	8,282	84	(D)	(D)	...
3589	Service and household machines, n.e.c.:												
	Number of establishments.....	238	25	24	1	213	154	59	178	60	41	19	...
	Number of employees.....	10,437	3,775	(D)	(D)	6,661	(D)	(D)	9,900	536	218	317	...
3591	Valves and fittings, except plumbers':												
	Number of establishments.....	556	115	112	3	441	333	108	445	111	61	47	3
	Number of employees.....	75,016	49,291	49,047	244	25,725	24,214	1,510	73,261	1,755	448	1,291	14
3592	Fabricated pipe and fittings:												
	Number of establishments.....	250	41	37	4	209	149	60	186	64	34	30	...
	Number of employees.....	12,670	5,739	5,637	102	6,930	6,269	661	11,906	763	290	473	...
3593	Ball and roller bearings:												
	Number of establishments.....	102	40	39	1	62	54	8	93	9	3	6	...
	Number of employees.....	49,720	40,790	(D)	(D)	8,930	(D)	(D)	49,447	273	146	127	...
3594	Industrial patterns and molds:												
	Number of establishments.....	1,800	28	20	8	1,772	563	1,209	583	1,217	810	396	11
	Number of employees.....	19,864	1,646	1,611	35	18,217	11,199	7,018	12,810	7,053	3,833	3,177	42
3599	Machine shops:												
	Number of establishments.....	6,832	174	153	21	6,658	2,717	3,941	2,870	3,962	2,558	1,383	21
	Number of employees.....	103,727	29,067	28,705	362	74,660	50,831	23,829	79,536	24,191	12,157	11,936	97

See footnotes at end of table.

GENERAL STATISTICS FOR OPERATING MANUFACTURING ESTABLISHMENTS CLASSIFIED BY TYPE OF OPERATION AND LEGAL ORGANIZATION,
BY MAJOR INDUSTRY GROUPS AND INDUSTRIES: 1954--Continued

Code	Major industry group and industry	All establishments	Type of operation ¹						Type of ownership or control ¹				
			Multiunit			Single unit			Corporate	Noncorporate			
			Total	Corporate ownership or control	Noncorporate ownership	Total	Corporate ownership or control	Noncorporate ownership		Total	Individual	Partnership	Other ²
36	Electrical machinery:												
	Number of establishments....	5,758	1,146	1,130	16	4,612	3,314	1,298	4,444	1,314	802	499	13
	All employees:												
	Number.....	959,126	741,666	740,543	1,123	217,460	201,416	16,044	941,959	17,167	6,321	10,266	580
	Payroll.....\$1,000..	3,950,994	3,102,911	3,098,277	4,634	848,083	796,549	51,534	3,894,826	56,168	20,278	33,908	1,982
	Production workers:												
	Number.....	722,443	550,891	550,011	880	171,552	158,007	13,545	708,018	14,425	5,259	8,769	397
	Wages.....\$1,000..	2,645,588	2,081,751	2,078,499	3,252	563,837	523,514	40,323	2,602,012	43,576	15,798	26,536	1,242
	Value added by manufacture.....do...	7,403,134	5,927,368	5,922,615	4,753	1,475,766	1,370,670	105,096	7,293,284	109,850	37,848	70,954	1,048
	Capital expenditures, new.....do...	340,677	285,594	285,424	170	55,083	51,305	3,778	336,728	3,949	1,714	2,140	95
3611	Wiring devices and supplies:												
	Number of establishments.....	395	78	74	4	317	229	88	303	92	52	39	1
	Number of employees.....	43,195	27,480	27,330	150	15,715	14,441	1,274	41,771	1,424	(D)	941	(D)
3612	Carbon and graphite products:												
	Number of establishments.....	53	17	17	...	36	28	8	45	8	4	4	...
	Number of employees.....	8,297	6,801	6,801	...	1,496	1,369	127	8,170	127	66	61	...
3613	Electrical measuring instruments:												
	Number of establishments.....	303	30	30	...	273	205	68	235	68	40	27	1
	Number of employees.....	33,049	20,632	20,632	...	12,417	11,745	671	32,377	671	(D)	442	(D)
3614	Motors and generators:												
	Number of establishments.....	309	97	97	...	212	159	53	256	53	38	15	...
	Number of employees.....	112,003	91,554	91,554	...	20,449	19,173	1,275	110,728	1,275	727	548	...
3615	Transformers:												
	Number of establishments.....	164	26	26	...	138	101	37	127	37	23	14	...
	Number of employees.....	40,956	33,787	33,787	...	7,169	6,820	348	40,607	348	148	200	...
3616	Electrical control apparatus:												
	Number of establishments.....	452	99	99	...	353	268	85	367	85	56	29	...
	Number of employees.....	79,314	55,846	55,846	...	23,467	22,581	886	78,428	886	549	337	...
3617	Electrical welding apparatus:												
	Number of establishments.....	119	31	26	5	88	58	30	84	35	17	18	...
	Number of employees.....	8,186	4,514	4,196	318	3,672	3,378	294	7,574	612	130	482	...
3619	Electrical industrial apparatus, n.e.c.:												
	Number of establishments.....	235	35	34	1	200	146	54	180	55	36	19	...
	Number of employees.....	14,996	9,453	(D)	(D)	5,543	(D)	(D)	14,324	672	211	460	...
3621	Electrical appliances:												
	Number of establishments.....	365	61	61	...	304	201	103	262	103	63	40	...
	Number of employees.....	48,582	36,743	36,743	...	11,839	10,947	892	47,690	892	290	601	...
3631	Insulated wire and cable:												
	Number of establishments.....	136	32	32	...	104	88	16	120	16	9	7	...
	Number of employees.....	14,410	9,534	9,534	...	4,876	4,692	184	14,226	184	44	139	...
3641	Engine electrical equipment:												
	Number of establishments.....	169	33	33	...	136	100	36	133	36	20	16	...
	Number of employees.....	46,349	38,639	38,639	...	7,709	7,146	563	45,785	563	259	303	...
3651	Electric lamps (bulbs):												
	Number of establishments.....	66	40	40	...	26	22	4	62	4	2	2	...
	Number of employees.....	21,963	20,571	20,571	...	1,392	1,347	45	21,918	45	(D)	(D)	...
3661	Radios and related products:												
	Number of establishments.....	1,753	293	291	2	1,460	1,064	396	1,355	398	232	160	6
	Number of employees.....	293,998	216,693	(D)	(D)	77,305	(D)	(D)	286,779	7,219	2,047	4,625	545
3662	Electronic tubes:												
	Number of establishments.....	157	70	70	...	87	74	13	144	13	7	6	...
	Number of employees.....	70,950	65,511	65,511	...	5,439	5,192	246	70,703	246	125	121	...
3663	Phonograph records:												
	Number of establishments.....	143	18	17	1	125	91	34	108	35	20	15	...
	Number of employees.....	6,152	4,480	(D)	(D)	1,672	(D)	(D)	5,932	220	126	93	...
3664	Telephone and telegraph equipment:												
	Number of establishments.....	74	31	31	...	43	39	4	70	4	2	2	...
	Number of employees.....	64,663	61,487	61,487	...	3,176	3,096	79	64,583	79	(D)	(D)	...
3669	Communication equipment, n.e.c.:												
	Number of establishments.....	141	10	10	...	131	96	35	106	35	26	8	1
	Number of employees.....	10,053	6,711	6,711	...	3,341	3,149	192	9,861	192	130	(D)	(D)
3691	Storage batteries:												
	Number of establishments.....	308	80	79	1	228	105	123	184	124	83	39	2
	Number of employees.....	15,670	12,793	(D)	(D)	2,877	(D)	(D)	15,069	600	322	(D)	(D)
3692	Primary batteries:												
	Number of establishments.....	41	30	30	...	11	11	...	41	...	...	...	...
	Number of employees.....	10,773	10,204	10,204	...	569	569	...	10,773	...	...	...	...
3693	X-ray and therapeutic apparatus:												
	Number of establishments.....	130	14	14	...	116	86	30	100	30	20	10	...
	Number of employees.....	7,054	3,782	3,782	...	3,272	3,126	145	6,908	145	95	50	...
3699	Electrical products, n.e.c.:												
	Number of establishments.....	245	21	19	2	224	143	81	162	83	52	29	2
	Number of employees.....	8,506	4,446	(D)	(D)	4,059	(D)	(D)	7,744	762	(D)	489	(D)

See footnotes at end of table.

MANUFACTURES—SUMMARY STATISTICS

GENERAL STATISTICS FOR OPERATING MANUFACTURING ESTABLISHMENTS CLASSIFIED BY TYPE OF OPERATION AND LEGAL ORGANIZATION,
BY MAJOR INDUSTRY GROUPS AND INDUSTRIES: 1954--Continued

Code	Major industry group and industry	All establishments	Type of operation ¹						Type of ownership or control ¹				
			Multiunit			Single unit			Corporate	Noncorporate			
			Total	Corporate ownership or control	Noncorporate ownership	Total	Corporate ownership or control	Noncorporate ownership		Total	Individual	Partnership	Other ²
37	Transportation equipment:												
	Number of establishments....	5,348	846	825	21	4,502	2,486	2,016	3,311	2,037	1,274	745	18
	All employees:												
	Number.....	1,704,572	1,395,422	1,391,928	3,494	309,150	288,319	20,831	1,680,247	24,325	9,205	15,003	117
	Payroll.....\$1,000..	8,295,773	6,879,945	6,864,483	15,462	1,415,828	1,338,451	77,377	8,202,934	92,839	31,176	61,284	379
	Production workers:												
	Number.....	1,327,078	1,081,091	1,077,987	3,104	245,988	227,957	18,031	1,302,890	21,136	8,027	13,019	88
	Payroll.....\$1,000..	6,003,250	4,987,607	4,974,423	13,183	1,015,644	952,111	63,532	5,926,535	76,715	25,964	50,486	265
	Value added by manufacture.....do...	13,925,983	11,846,890	11,819,125	27,765	2,079,093	1,944,415	134,678	13,763,539	162,444	50,493	111,215	735
	Capital expenditures, new.....do...	924,646	861,800	860,533	1,267	62,846	55,601	7,245	916,134	8,512	3,336	5,093	83
3713	Truck and bus bodies:												
	Number of establishments.....	564	38	32	6	526	269	257	301	263	151	110	2
	Number of employees.....	18,689	5,966	5,036	930	12,723	10,056	2,667	15,092	3,597	(D)	2,340	(D)
3715	Truck trailers:												
	Number of establishments.....	130	34	31	3	96	69	27	100	30	21	9	...
	Number of employees.....	16,381	11,441	11,160	281	4,940	4,586	353	15,746	634	442	191	...
3716	Automobile trailers:												
	Number of establishments.....	275	14	14	...	261	166	95	180	95	61	34	...
	Number of employees.....	11,131	2,024	2,024	...	9,107	7,942	1,164	9,966	1,164	472	691	...
3717	Motor vehicles and parts:												
	Number of establishments.....	1,226	362	356	6	864	541	323	897	329	182	144	3
	Number of employees.....	649,274	604,159	601,987	2,172	45,115	41,938	3,177	643,925	5,349	1,309	3,996	42
3721	Aircraft:												
	Number of establishments.....	72	46	46	...	26	26	...	72	...	...	...	...
	Number of employees.....	457,618	362,179	362,179	...	95,439	95,439	...	457,618	...	...	...	...
3722	Aircraft engines:												
	Number of establishments.....	234	74	74	...	160	124	36	198	36	14	22	...
	Number of employees.....	167,383	150,933	150,933	...	16,450	15,362	1,087	166,295	1,087	152	935	...
3723	Aircraft propellers:												
	Number of establishments.....	16	5	5	...	11	8	3	13	3	...	3	...
	Number of employees.....	16,523	15,309	15,309	...	1,213	1,145	68	16,454	68	...	68	...
3729	Aircraft equipment, n.e.c.:												
	Number of establishments.....	1,082	135	133	2	947	527	420	660	422	230	189	3
	Number of employees.....	180,946	127,234	(D)	(D)	53,712	(D)	(D)	175,127	5,819	2,088	3,712	19
3731	Ship building and repairing:												
	Number of establishments.....	355	57	56	1	298	233	65	289	66	36	30	...
	Number of employees.....	109,451	61,514	(D)	(D)	47,937	(D)	(D)	107,344	2,107	925	1,181	...
3732	Boat building and repairing:												
	Number of establishments.....	1,154	25	22	3	1,129	406	723	428	726	533	185	8
	Number of employees.....	16,900	(D)	3,179	(D)	(D)	9,637	(D)	12,817	4,083	2,298	1,761	24
3741	Locomotives and parts:												
	Number of establishments.....	29	15	15	...	14	13	1	28	1	...	1	...
	Number of employees.....	20,891	20,379	20,379	...	512	(D)	(D)	(D)	(D)	...	(D)	...
3742	Railroad and street cars:												
	Number of establishments.....	57	31	31	...	26	23	3	54	3	3	...	...
	Number of employees.....	30,683	28,330	28,330	...	2,353	2,346	6	30,677	6	6	...	...
3751	Motorcycles and bicycles:												
	Number of establishments.....	46	9	9	...	37	25	12	34	12	10	2	...
	Number of employees.....	7,061	2,738	2,738	...	4,323	4,269	53	7,007	53	(D)	(D)	...
3799	Transportation equipment, n.e.c.:												
	Number of establishments.....	108	1	1	...	107	56	51	57	51	33	16	2
	Number of employees.....	1,636	(D)	(D)	...	(D)	(D)	(D)	(D)	(D)	206	(D)	(D)
38	Instruments and related products:												
	Number of establishments....	3,142	366	355	11	2,776	1,665	1,111	2,020	1,122	725	394	3
	All employees:												
	Number.....	272,586	190,045	189,767	278	82,541	73,698	8,842	263,465	9,121	4,070	5,016	34
	Payroll.....\$1,000..	1,200,322	868,954	867,887	1,067	331,368	303,230	28,138	1,171,117	29,205	(D)	16,338	(D)
	Production workers:												
	Number.....	195,597	132,542	132,315	227	63,054	55,896	7,158	188,211	7,386	3,235	4,119	31
	Wages.....\$1,000..	759,459	544,988	544,185	803	214,471	193,575	20,895	737,760	21,698	(D)	12,176	(D)
	Value added by manufacture.....do...	2,128,706	1,590,901	1,588,512	2,389	537,805	480,665	57,140	2,069,177	59,529	(D)	32,870	(D)
	Capital expenditures, new.....do...	94,008	73,527	73,478	49	20,481	18,262	2,218	91,740	2,267	(D)	920	(D)
3811	Scientific instruments:												
	Number of establishments.....	370	45	44	1	325	211	114	255	115	77	38	...
	Number of employees.....	45,315	36,055	(D)	(D)	9,259	(D)	(D)	44,499	815	389	425	...
3821	Mechanical measuring instruments:												
	Number of establishments.....	614	88	86	2	526	341	185	427	187	121	66	...
	Number of employees.....	69,422	52,567	(D)	(D)	16,855	(D)	(D)	67,746	1,676	869	806	...
3831	Optical instruments and lenses:												
	Number of establishments.....	205	13	12	1	192	118	74	130	75	50	24	1
	Number of employees.....	12,658	6,850	(D)	(D)	5,808	(D)	(D)	11,647	1,011	596	(D)	(D)
3841	Surgical and medical instruments:												
	Number of establishments.....	208	10	10	...	198	116	82	126	82	55	26	1
	Number of employees.....	6,562	2,323	2,323	...	4,239	3,298	940	5,621	940	(D)	594	(D)

See footnotes at end of table.

TYPE OF ORGANIZATION

204-21

GENERAL STATISTICS FOR OPERATING MANUFACTURING ESTABLISHMENTS CLASSIFIED BY TYPE OF OPERATION AND LEGAL ORGANIZATION,
BY MAJOR INDUSTRY GROUPS AND INDUSTRIES: 1954--Continued

Code	Major industry group and industry	All establishments	Type of operation ¹						Type of ownership or control ¹				
			Multiunit			Single unit			Corporate	Noncorporate			
			Total	Corporate ownership or control	Noncorporate ownership	Total	Corporate ownership or control	Noncorporate ownership		Total	Individual	Partnership	Other ²
38	Instruments and related products--Continued												
3842	Surgical appliances and supplies:												
	Number of establishments.....	652	75	72	3	577	267	310	339	313	205	107	1
	Number of employees.....	24,457	15,427	15,411	15	9,030	7,307	1,723	22,719	1,738	937	(D)	(D)
3843	Dental equipment and supplies:												
	Number of establishments.....	197	21	21	...	176	98	78	119	78	53	25	...
	Number of employees.....	7,103	3,108	3,108	...	3,994	3,617	377	6,725	377	205	171	...
3851	Ophthalmic goods:												
	Number of establishments.....	238	34	30	4	204	141	63	171	67	31	36	...
	Number of employees.....	18,464	10,605	10,578	26	7,859	7,272	586	17,851	612	158	454	...
3861	Photographic equipment:												
	Number of establishments.....	449	54	54	...	395	256	139	310	139	91	48	...
	Number of employees.....	59,099	45,647	45,647	...	13,451	12,126	1,325	57,773	1,325	429	896	...
3871	Watches and clocks:												
	Number of establishments.....	145	20	20	...	125	76	49	96	49	34	15	...
	Number of employees.....	25,708	15,596	15,596	...	10,112	9,723	388	25,319	388	118	270	...
3872	Watchcases:												
	Number of establishments.....	64	6	6	...	58	41	17	47	17	8	9	...
	Number of employees.....	3,795	1,865	1,865	...	1,930	1,696	234	3,561	234	22	212	...
39	Miscellaneous manufactures ³ :												
	Number of establishments....	17,010	1,043	981	62	15,967	8,009	7,958	8,990	8,020	5,108	2,847	63
	All employees:												
	Number.....	695,917	354,422	351,102	3,320	341,495	277,849	63,646	628,951	66,966	28,396	36,779	1,791
	Payroll.....\$1,000..	2,658,182	1,500,362	1,490,565	9,797	1,157,820	985,293	172,527	2,475,858	182,324	72,315	103,670	6,339
	Production workers:												
	Number.....	555,746	271,132	268,263	2,869	284,614	229,387	55,226	497,650	58,095	24,400	32,213	1,482
	Wages.....\$1,000..	1,861,873	1,044,861	1,037,330	7,531	817,012	680,161	136,851	1,717,491	144,382	57,189	83,744	3,449
	Value added by man- ufacture.....do...	4,473,050	2,561,618	2,542,847	18,771	1,911,432	1,565,781	345,651	4,108,628	364,422	138,614	214,116	11,692
	Capital expenditures, new.....do...	176,036	98,739	98,195	544	77,297	65,157	12,140	163,352	12,684	5,152	6,854	678
3911	Jewelry (precious metal):												
	Number of establishments.....	1,327	21	17	4	1,306	546	760	563	764	455	306	3
	Number of employees.....	23,455	3,516	3,428	87	19,938	15,850	4,088	19,278	4,176	1,769	2,367	40
3912	Jewelers' findings:												
	Number of establishments.....	234	8	8	...	226	126	100	134	100	62	38	...
	Number of employees.....	5,371	1,442	1,442	...	3,929	3,066	862	4,508	862	349	512	...
3913	Lapidary work:												
	Number of establishments.....	333	5	5	...	328	68	260	73	260	178	81	1
	Number of employees.....	1,759	(D)	(D)	...	(D)	(D)	955	803	955	580	(D)	(D)
3914	Silverware and plated ware:												
	Number of establishments.....	207	38	36	2	169	115	54	151	56	34	22	...
	Number of employees.....	17,345	11,972	(D)	(D)	5,373	(D)	(D)	16,574	590	181	408	...
3931	Pianos:												
	Number of establishments.....	27	14	14	...	13	12	1	26	1	1	...	...
	Number of employees.....	5,759	4,635	4,635	...	1,124	(D)	(D)	(D)	(D)	(D)	...	...
3932	Organs:												
	Number of establishments.....	31	4	4	...	27	19	8	23	8	5	3	...
	Number of employees.....	1,762	(D)	(D)	...	(D)	(D)	76	1,686	76	(D)	(D)	...
3933	Piano and organ parts:												
	Number of establishments.....	40	11	11	...	29	17	12	28	12	8	4	...
	Number of employees.....	3,032	1,626	1,626	...	1,405	1,296	109	2,923	109	34	75	...
3939	Musical instruments, n.e.c.:												
	Number of establishments.....	144	9	8	1	135	74	61	82	62	42	20	...
	Number of employees.....	4,853	1,411	(D)	(D)	3,441	(D)	(D)	4,025	827	392	435	...
3941	Games and toys, n.e.c.:												
	Number of establishments.....	886	50	47	3	836	521	315	568	318	183	130	5
	Number of employees.....	38,242	10,521	10,228	293	27,720	24,300	3,420	24,528	3,713	1,346	2,288	79
3942	Dolls:												
	Number of establishments.....	484	5	3	2	479	234	245	237	247	141	102	4
	Number of employees.....	15,119	2,655	(D)	(D)	12,464	(D)	(D)	10,996	4,122	1,172	2,740	209
3943	Children's vehicles:												
	Number of establishments.....	60	8	8	...	52	38	14	46	14	6	7	1
	Number of employees.....	6,278	2,813	2,813	...	3,465	3,405	59	6,218	59	12	(D)	(D)
3949	Sporting and athletic goods:												
	Number of establishments.....	1,031	63	58	5	968	464	504	522	509	330	176	3
	Number of employees.....	28,919	11,494	11,449	44	17,425	13,612	3,813	25,062	3,857	1,799	2,050	7
3951	Pens and mechanical pencils:												
	Number of establishments.....	140	15	15	...	125	84	41	99	41	18	23	...
	Number of employees.....	10,879	6,844	6,844	...	4,035	3,370	664	10,215	664	165	498	...
3952	Lead pencils and crayons:												
	Number of establishments.....	60	9	9	...	51	36	15	45	15	12	3	...
	Number of employees.....	5,029	2,202	2,202	...	2,826	2,734	92	4,936	92	60	31	...

See footnotes at end of table.

MANUFACTURES—SUMMARY STATISTICS

GENERAL STATISTICS FOR OPERATING MANUFACTURING ESTABLISHMENTS CLASSIFIED BY TYPE OF OPERATION AND LEGAL ORGANIZATION,
BY MAJOR INDUSTRY GROUPS AND INDUSTRIES: 1954--Continued

Code	Major industry group and industry	All establishments	Type of operation ¹						Type of ownership or control ¹				
			Multiunit			Single unit			Corporate	Noncorporate			
			Total	Corporate ownership or control	Noncorporate ownership	Total	Corporate ownership or control	Noncorporate ownership		Total	Individual	Partnership	Other ²
39	Miscellaneous manufactures ³ --Continued												
3953	Hand stamps and stencils:												
	Number of establishments.....	453	19	14	5	434	163	271	177	276	182	90	4
	Number of employees.....	5,654	1,162	1,127	35	4,491	3,020	1,471	4,147	1,507	806	683	16
3954	Artists' materials:												
	Number of establishments.....	95	7	5	2	88	47	41	52	43	30	12	1
	Number of employees.....	1,913	392	(D)	(D)	1,520	(D)	(D)	(D)	(D)	116	(D)	(D)
3955	Carbon paper and inked ribbons:												
	Number of establishments.....	84	21	21	...	63	45	18	66	18	11	7	...
	Number of employees.....	4,742	3,105	3,105	...	1,636	1,455	180	4,561	180	88	91	...
3961	Costume jewelry:												
	Number of establishments.....	1,127	17	16	1	1,110	513	597	529	598	397	198	3
	Number of employees.....	27,744	2,863	(D)	(D)	24,881	(D)	(D)	21,700	6,044	2,675	3,303	64
3962	Artificial flowers:												
	Number of establishments.....	471	12	7	5	459	177	282	184	287	189	96	2
	Number of employees.....	7,306	480	(D)	(D)	6,826	(D)	(D)	4,264	3,042	(D)	1,543	(D)
3963	Buttons:												
	Number of establishments.....	409	31	22	9	378	161	217	183	226	117	109	...
	Number of employees.....	8,471	2,633	1,997	636	5,838	3,657	2,180	5,654	2,816	774	2,042	...
3964	Needles, pins, and fasteners:												
	Number of establishments.....	357	29	27	2	328	203	125	230	127	65	62	...
	Number of employees.....	23,152	13,721	(D)	(D)	9,431	(D)	(D)	21,948	1,204	468	736	...
3971	Plastics products, n.e.c.:												
	Number of establishments.....	2,439	198	194	4	2,241	1,531	710	1,725	714	412	295	7
	Number of employees.....	91,967	35,013	34,941	72	56,954	49,858	7,095	84,799	7,167	2,450	4,345	371
3981	Brooms and brushes:												
	Number of establishments.....	698	32	31	1	666	248	418	279	419	300	114	5
	Number of employees.....	16,826	5,510	(D)	(D)	11,316	(D)	(D)	13,010	3,816	1,643	1,718	454
3982	Cork products:												
	Number of establishments.....	35	6	6	...	29	19	10	25	10	6	4	...
	Number of employees.....	2,117	(D)	(D)	...	(D)	(D)	47	2,070	47	25	22	...
3983	Matches:												
	Number of establishments.....	20	11	11	...	9	8	1	19	1	1	...	...
	Number of employees.....	6,191	4,912	4,912	...	1,278	(D)	(D)	(D)	(D)	(D)	...	...
3984	Candles:												
	Number of establishments.....	89	5	4	1	84	48	36	52	37	23	14	...
	Number of employees.....	3,010	722	(D)	(D)	2,288	(D)	(D)	2,805	205	111	94	...
3985	Fireworks and pyrotechnics:												
	Number of establishments.....	78	10	8	2	68	48	20	56	22	15	7	...
	Number of employees.....	2,637	662	(D)	(D)	1,975	(D)	(D)	2,165	472	67	405	...
3986	Jewelry and instrument cases:												
	Number of establishments.....	166	5	5	...	161	83	78	88	78	54	24	...
	Number of employees.....	8,003	(D)	(D)	...	(D)	(D)	810	7,192	810	382	428	...
3987	Lamp shades:												
	Number of establishments.....	325	5	4	1	320	109	211	113	212	147	62	3
	Number of employees.....	5,025	351	(D)	(D)	4,674	(D)	(D)	3,336	1,689	849	755	84
3988	Morticians' goods:												
	Number of establishments.....	563	42	41	1	521	287	234	328	235	137	94	4
	Number of employees.....	16,729	4,664	(D)	(D)	12,065	(D)	(D)	14,438	2,290	1,058	1,187	45
3991	Beauty and barber shop equipment:												
	Number of establishments.....	67	8	8	...	59	43	16	51	16	9	7	...
	Number of employees.....	1,719	747	747	...	972	827	145	1,574	145	44	100	...
3992	Furs, dressed and dyed:												
	Number of establishments.....	160	4	4	...	156	95	61	99	61	25	33	3
	Number of employees.....	3,459	(D)	(D)	...	(D)	(D)	422	3,037	422	80	216	125
3993	Signs and advertising displays:												
	Number of establishments.....	2,620	54	47	7	2,566	1,008	1,558	1,055	1,565	1,092	464	9
	Number of employees.....	33,581	3,805	3,771	33	29,776	21,297	8,479	25,068	8,513	4,934	3,467	111
3994	Hairwork:												
	Number of establishments.....	131	3	3	...	128	52	76	55	76	47	29	...
	Number of employees.....	1,708	28	28	...	1,679	1,119	560	1,148	560	179	381	...
3995	Umbrellas, parasols, and canes:												
	Number of establishments.....	140	4	4	...	136	64	72	68	72	46	26	...
	Number of employees.....	3,210	(D)	(D)	...	(D)	(D)	550	2,660	550	196	353	...

See footnotes at end of table.

TYPE OF ORGANIZATION

204-23

GENERAL STATISTICS FOR OPERATING MANUFACTURING ESTABLISHMENTS CLASSIFIED BY TYPE OF OPERATION AND LEGAL ORGANIZATION,
BY MAJOR INDUSTRY GROUPS AND INDUSTRIES: 1954--Continued

Code	Major industry group and industry	All establishments	Type of operation ¹						Type of ownership or control ¹				
			Multiunit			Single unit			Corporate	Noncorporate			
			Total	Corporate ownership or control	Noncorporate ownership	Total	Corporate ownership or control	Noncorporate ownership		Total	Individual	Partnership	Other ²
39	Miscellaneous manufactures ³ -- Continued												
3996	Tobacco pipes:												
	Number of establishments.....	43	3	3	...	40	25	15	28	15	8	6	1
	Number of employees.....	1,521	(D)	(D)	...	(D)	(D)	89	1,432	89	(D)	71	(D)
3997	Soda-fountain and bar equipment:												
	Number of establishments.....	50	3	2	1	47	34	13	36	14	8	6	...
	Number of employees.....	1,445	440	(D)	(D)	1,005	(D)	(D)	1,379	65	49	16	...
3999	Miscellaneous products, n.e.c.:												
	Number of establishments.....	893	46	44	2	847	432	415	476	417	268	143	6
	Number of employees.....	20,765	6,996	(D)	(D)	13,768	(D)	(D)	17,664	3,100	1,450	1,524	126
1900	Ordnance and accessories:												
	Number of establishments.....	493	208	207	1	285	212	73	419	74	44	30	...
	Number of employees.....	229,191	200,654	(D)	(D)	28,550	(D)	(D)	227,317	1,887	505	1,382	...

NOTE: Figures may not add to the totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies.

¹All data are based on reports for individual manufacturing establishments, and not on a company basis. Each establishment of multiestablishment companies is classified by its primary industrial activity. For this reason the statistics presented in this table cannot be compared directly with tabulations in which the whole corporation or company is the reporting unit and the entire company is classified in one industry, for example, the statistics of income of corporations compiled by the Bureau of Internal Revenue, U. S. Treasury Department. Establishments were classified as part of a multiunit company when the company operated two or more manufacturing establishments or one manufacturing plant plus any other type of establishment.

²Includes cooperatives, establishments operated by estate administrators, trusteeships, receiverships, and public and quasi-public organizations.

³Includes Major Industry Group 19, "Ordnance and Accessories." Group 19 includes a number of government owned privately operated establishments. Establishments which are government-owned and government-operated are not included.

CHAPTER V

MANUFACTURERS' INVENTORIES

205-1

Table 1.—VALUE OF MANUFACTURERS' INVENTORIES FOR INDUSTRY GROUPS: END OF 1954 AND EARLIER YEARS
(In thousands of dollars)

Code No.		Industry group	Value of inventories at end of year—											
			1954 ¹			1953 ¹			1952 ²			Materials, supplies, fuels, etc.		
			Total	Finished products	Work-in-process	Materials, supplies, fuels, etc.	Total	Finished products	Work-in-process	Materials, supplies, fuels, etc.	Total		Finished products	Work-in-process
		40,340,893	13,540,617	11,881,153	14,918,817	42,846,663	13,794,458	12,849,424	16,202,506	40,709,417	12,531,916	12,029,084	16,148,417	
20	Food and kindred products.....	4,670,108	2,722,606	3,211,452	1,736,020	4,692,060	3,210,314	3,211,318	1,770,396	4,613,525	3,268,298	3,244,397	1,682,830	
21	Tobacco manufactures.....	1,702,469	653,464	28,810	1,020,195	1,628,468	641,534	27,147	4,959,787	1,606,343	626,395	25,569	954,379	
22	Textile mill products.....	2,146,780	783,510	574,820	788,417	2,251,776	840,705	593,535	817,504	2,459,515	838,791	650,734	969,990	
23	Apparel and related products.....	1,464,097	629,437	260,162	574,415	1,555,236	670,329	268,671	616,179	1,532,782	590,767	308,191	633,824	
24	Lumber and wood products.....	1,142,920	515,625	226,966	400,328	1,151,141	517,749	236,372	397,017	1,121,315	500,609	214,771	405,935	
25	Furniture and fixtures.....	581,828	164,974	138,319	278,520	596,050	159,669	139,617	296,750	571,021	151,472	142,801	276,748	
26	Pulp, paper, and products.....	1,090,879	298,742	103,872	688,263	1,089,375	277,624	100,628	711,118	1,055,341	254,085	101,644	699,612	
27	Printing and publishing.....	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	
28	Chemicals and products.....	2,852,860	1,178,659	407,237	1,266,959	2,948,218	1,178,286	418,720	1,351,205	3,056,376	1,128,953	412,494	1,514,929	
29	Petroleum and coal products.....	1,582,011	861,802	278,295	441,913	1,627,145	858,504	280,083	488,557	1,436,165	734,952	256,929	444,284	
30	Rubber products.....	589,731	289,671	93,199	206,860	618,223	299,392	89,009	229,821	647,516	297,733	97,973	251,810	
31	Leather and leather goods.....	489,081	167,090	120,608	201,375	509,533	169,511	126,393	213,620	497,212	150,461	135,807	210,944	
32	Stone, clay, and glass products.....	805,670	353,165	99,878	352,600	823,416	355,089	103,820	364,481	776,391	311,621	104,382	360,388	
33	Primary metal industries.....	3,496,264	891,878	1,062,545	1,541,835	3,649,143	867,267	1,098,780	1,683,090	3,278,387	639,869	1,005,248	1,633,270	
34	Fabricated metal products.....	2,482,121	648,163	744,621	1,089,318	2,740,810	662,114	810,346	1,268,335	2,442,432	568,367	787,013	1,087,052	
35	Machinery, except electrical.....	4,698,071	1,547,705	1,798,385	1,351,957	5,293,801	1,582,235	2,138,517	1,573,025	5,287,933	1,430,561	2,249,369	1,608,003	
36	Electrical machinery.....	2,472,123	608,280	1,114,499	749,333	2,826,394	693,584	1,252,490	880,309	2,734,816	560,483	1,271,008	903,325	
37	Transportation equipment.....	5,474,477	452,756	3,620,030	1,401,688	5,960,402	579,249	3,723,856	1,657,293	5,008,431	484,604	2,844,481	1,679,346	
38	Instruments and related products.....	746,785	187,235	370,035	189,511	796,569	185,562	418,873	192,130	760,805	175,347	400,883	184,575	
39	Miscellaneous manufactures ⁶	1,852,618	585,855	627,421	639,310	2,088,903	545,741	811,249	731,889	1,823,111	400,548	775,390	647,173	
		Value of inventories at end of year—												
		1951 ²			1950 ²			1949 ²			1947 ¹			Materials, supplies, work-in-process, etc.
		Total	Finished products	Materials, supplies, work-in-process, etc.	Total	Finished products	Materials, supplies, work-in-process, etc.	Total	Finished products	Materials, supplies, work-in-process, etc.	Total	Finished products		
All industries, total.....		38,329,100	12,280,291	26,048,809	30,473,462	9,555,807	20,917,655	25,800,328	9,235,469	16,564,859	26,129,137	7,808,637	18,320,500	
20	Food and kindred products.....	4,912,674	2,693,721	2,218,953	4,351,199	2,312,885	2,038,314	3,759,852	2,099,600	1,660,252	4,078,750	1,943,108	2,135,642	
21	Tobacco manufactures.....	1,425,887	522,084	903,803	1,335,481	505,862	829,619	1,225,149	496,714	728,435	1,117,664	465,754	651,910	
22	Textile mill products.....	2,776,132	949,326	1,824,806	2,413,840	624,515	1,789,325	1,838,878	542,962	1,295,916	1,788,166	385,472	1,402,694	
23	Apparel and related products.....	1,635,492	631,104	1,004,388	1,677,321	602,220	1,075,101	1,216,948	483,069	733,879	1,257,372	449,094	808,278	
24	Lumber and wood products.....	1,033,829	474,727	559,102	839,141	374,571	464,570	764,663	375,424	389,439	653,637	275,277	378,360	
25	Furniture and fixtures.....	584,281	154,079	430,202	515,686	121,771	393,915	365,953	99,644	266,309	401,311	83,053	318,258	
26	Pulp, paper, and products.....	1,018,840	227,689	791,151	786,527	176,929	609,598	668,570	160,259	508,311	714,223	125,316	588,907	
27	Printing and publishing.....	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	
28	Chemicals and products.....	2,946,228	1,059,606	1,886,622	2,290,987	713,177	1,577,810	2,102,264	808,743	1,293,521	2,062,730	650,037	1,412,693	
29	Petroleum and coal products.....	1,370,761	705,701	665,060	1,229,155	606,557	622,598	1,184,926	661,507	523,419	888,583	453,606	434,977	
30	Rubber products.....	599,212	223,274	375,938	406,266	143,580	262,686	407,932	203,640	204,292	413,785	152,967	260,818	
31	Leather and leather goods.....	592,157	184,907	407,250	585,911	138,550	427,361	461,230	143,588	317,642	508,276	120,257	388,019	
32	Stone, clay, and glass products.....	811,423	338,155	473,268	635,329	248,132	387,197	565,027	249,535	315,492	494,666	184,543	310,123	
33	Primary metal industries.....	2,799,579	616,107	2,183,472	2,476,452	556,055	1,920,397	2,209,901	566,899	1,643,002	1,968,469	441,282	1,527,187	
34	Fabricated metal products.....	2,445,466	603,051	1,842,415	1,877,853	429,574	1,448,279	1,505,868	1,098,686	1,500,320	1,500,320	315,639	1,184,681	
35	Machinery, except electrical.....	5,172,992	1,433,068	3,739,924	3,623,453	1,011,026	2,612,427	3,074,128	1,027,197	2,047,083	3,354,237	890,262	2,463,975	
36	Electrical machinery.....	2,422,795	520,045	1,902,750	1,592,811	325,196	1,267,615	1,236,860	302,689	934,171	1,489,516	291,340	1,198,176	
37	Transportation equipment.....	3,764,347	414,630	3,349,717	2,522,236	293,380	2,228,856	2,130,055	269,047	1,861,008	2,377,482	296,994	2,080,488	
38	Instruments and related products.....	747,169	155,753	591,416	516,002	117,970	398,032	459,545	126,822	332,723	429,047	103,757	325,290	
39	Miscellaneous manufactures ⁶	1,269,836	373,264	896,572	797,812	233,857	563,955	622,427	211,148	411,279	630,903	180,879	450,024	

¹In 1954, establishments that reported on the short form (generally those with less than six employees) were asked to show only their total beginning and end of year inventories. Their 1954 totals were prorated on the basis of 1954 industry averages of the establishments that accounted for approximately 1.4% of the total manufacturing employment did not report inventory data and are not represented in the 1947 figures. In 1947, very small establishments that accounted for approximately 1.4% of the total manufacturing employment did not report inventory data and are not represented in the 1947 figures. See 1947 Census of Manufactures, Volume I, Chapter V for a measure of undercoverage by industry. ²The figures for 1949 through 1952 represent estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufacturers. These estimates consequently may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufacturers volumes for these years. Separate figures for work-in-process inventories were not requested for Industry 2011, Meat Packing, and Industry 2013, Prepared Meats, but were combined with the inventories of finished products. ³The total inventories reported in the 1954 Census for Industry 2141 were allocated by type of inventory of the basis of the distribution reported in the 1953 Annual Survey of Manufacturers. ⁴Inventory data were not collected from establishments classified in the printing and publishing industries. ⁵Includes privately owned and/or operated establishments classified in Major Industry Group 19, "Ordnance and Accessories." (Establishments which are government owned and operated are not included.)

MANUFACTURES--SUMMARY STATISTICS

Table 2.--VALUE OF MANUFACTURERS' INVENTORIES FOR INDUSTRY GROUPS AND INDUSTRIES: END OF 1954 AND 1953
(In thousands of dollars)

Code No.	Industry group and industry	Value of inventories at end of year--							
		1954 ¹				1953 ¹			
		Total	Finished products	Work-in-process	Materials, supplies, fuels, etc.	Total	Finished products	Work-in-process	Materials, supplies, fuels, etc.
	All industries, total.....	40,340,893	13,540,617	11,881,153	14,918,817	42,846,663	13,794,458	12,849,424	16,202,506
20	Food and kindred products.....	4,670,108	2,722,606	2,211,452	1,736,020	4,692,060	2,710,314	2,211,318	1,770,396
201	Meat products.....	545,980	248,200	2812	116,966	578,252	245,843	21,008	120,401
2011	Meat packing plants.....	410,447	2317,868	(2)	92,579	431,567	2337,676	(2)	93,891
2013	Prepared meats.....	79,268	264,890	(2)	14,376	85,390	269,856	(2)	15,534
2015	Poultry dressing plants.....	56,265	45,442	812	10,011	61,295	49,311	1,008	10,976
202	Dairy products.....	336,736	174,814	14,329	147,586	351,822	191,826	14,784	145,208
2021	Creamery butter.....	33,858	23,108	1,329	9,420	37,899	27,451	1,233	9,214
2022	Natural cheese.....	30,255	21,993	1,188	7,073	30,880	21,382	1,175	8,322
2023	Concentrated milk.....	37,849	25,138	1,192	11,517	44,925	31,754	1,555	11,615
2024	Ice cream and ices.....	49,741	16,801	977	31,961	50,373	17,487	1,277	31,609
2025	Special dairy products.....	45,024	22,767	934	21,322	49,525	27,824	992	20,708
2026	Fluid milk.....	11,813	7,074	1,222	3,517	11,222	6,825	975	3,422
2027	Fluid milk and other products.....	128,196	57,933	7,487	62,776	126,998	59,103	7,577	60,318
203	Canned and frozen foods.....	1,023,221	815,186	48,579	159,452	978,052	769,059	45,956	163,030
2031	Canned seafood.....	69,673	64,394	(3)	4,806	49,745	44,138	(3)	5,357
2032	Cured fish.....	5,832	4,300	(3)	1,184	5,878	4,300	(3)	1,289
2033	Canned fruits and vegetables.....	667,973	560,284	16,154	91,535	662,219	552,029	15,328	94,861
2034	Dehydrated fruits and vegetables.....	53,574	30,404	5,712	17,458	52,117	28,032	7,387	16,697
2035	Pickles and sauces.....	96,566	50,228	17,091	29,246	98,769	51,827	17,734	29,207
2036	Packaged seafood.....	21,723	16,386	1,201	4,136	20,531	15,161	961	4,408
2037	Frozen fruits and vegetables.....	107,880	89,190	7,602	11,087	88,793	73,572	4,009	11,211
204	Grain mill products.....	559,181	164,603	14,922	379,653	539,727	162,040	12,071	365,612
2041	Flour and meal.....	237,356	45,320	3,918	188,118	219,098	45,715	3,120	170,262
2042	Prepared animal feeds.....	187,854	60,074	7,001	120,779	185,994	57,977	5,966	122,051
2043	Cereal breakfast foods.....	32,328	7,776	1,161	23,390	33,678	8,480	1,008	24,189
2044	Rice milling.....	79,647	42,968	2,509	34,169	80,319	41,989	1,670	36,659
2045	Flour mixes.....	21,996	8,465	(3)	13,197	20,638	7,879	(3)	12,451
205	Bakery products.....	174,911	20,881	2,954	151,074	172,201	19,913	2,926	149,360
2051	Bread and related products.....	131,778	5,781	1,252	124,745	128,732	5,625	1,327	121,779
2052	Biscuit and crackers.....	43,133	15,100	1,702	26,329	43,469	14,288	1,599	27,581
206	Sugar.....	224,508	162,690	7,177	54,639	209,583	150,478	6,662	52,440
2061	Raw cane sugar.....	15,770	13,638	220	1,911	13,810	11,488	169	2,152
2062	Cane-sugar refining.....	68,552	28,749	5,135	34,667	70,365	34,908	4,686	30,770
2063	Beet sugar.....	140,186	120,303	1,822	18,061	125,408	104,082	1,807	19,518
207	Confectionery and related products.....	255,548	82,372	18,969	154,206	246,705	77,008	17,921	151,775
2071	Confectionery products.....	135,290	44,896	7,576	82,817	131,812	42,580	7,488	81,744
2072	Chocolate and cocoa products.....	88,899	33,018	10,613	45,267	84,425	29,953	9,715	44,756
2073	Chewing gum.....	31,359	4,458	780	26,121	30,468	4,475	718	25,275
208	Beverages.....	989,821	675,649	64,577	249,592	1,040,551	686,618	74,791	279,140
2081	Bottled soft drinks.....	75,641	16,738	1,802	57,101	73,800	15,299	1,805	56,696
2082	Beer and ale.....	144,593	25,555	25,574	93,464	155,182	23,235	26,255	105,692
2083	Malt.....	73,236	37,966	4,249	31,020	78,143	36,392	4,293	37,458
2084	Wines and brandy.....	58,000	40,979	9,851	7,169	56,350	39,133	9,985	7,231
2085	Distilled liquor.....	638,351	554,411	23,101	60,838	677,076	572,559	32,453	72,063
209	Miscellaneous foods.....	560,202	198,211	39,133	322,852	575,167	196,529	35,199	343,430
2091	Leavening compounds.....	8,398	1,476	(3)	6,470	8,468	1,481	(3)	6,491
2092	Shortening and cooking oils.....	78,199	31,380	17,758	29,060	72,183	28,850	13,944	29,388
2093	Margarine.....	7,979	3,175	(3)	4,709	7,467	2,555	(3)	4,821
2094	Corn wet milling.....	54,412	19,994	4,185	30,233	50,851	18,845	4,354	27,651
2095	Flavorings.....	75,888	20,020	3,541	52,326	76,921	20,081	3,107	53,731
2097	Manufactured ice.....	5,672	3,237	534	1,899	5,861	3,424	541	1,895
2098	Macaroni and spaghetti.....	12,148	4,547	634	6,966	11,631	4,275	597	6,757
2099	Food preparations, nec.....	317,506	114,382	11,935	191,189	341,785	117,018	12,070	212,696
21	Tobacco manufactures.....	1,702,469	463,464	28,810	41,020,195	1,628,468	464,534	27,147	4959,787
2111	Cigarettes.....	443,590	25,846	7,623	410,121	394,234	26,372	7,897	359,965
2121	Cigars.....	72,888	19,976	5,392	47,520	67,297	15,703	6,792	44,802
2131	Chewing and smoking tobacco.....	38,072	5,568	6,012	26,492	39,409	6,560	5,723	27,126
2141	Tobacco stemming and redrying.....	1,147,919	460,074	9,783	4536,062	1,127,528	4592,899	6,735	4527,894
22	Textile mill products.....	2,146,780	783,510	574,820	788,417	2,251,776	840,705	593,535	817,504
221	Woolen and worsted manufactures.....	288,593	73,444	123,530	91,614	316,690	81,373	132,652	102,661
2211	Scouring and combing plants.....	17,947	8,412	3,637	5,896	21,220	9,091	4,862	7,266
2212	Yarn mills, wool, except carpet.....	42,100	10,486	17,912	13,701	49,109	11,695	22,978	14,435
2213	Woolen and worsted fabrics.....	215,932	49,553	95,745	70,633	234,095	55,667	99,245	79,182
2216	Finishing wool textiles.....	12,614	4,993	6,236	1,384	12,266	4,920	5,567	1,778
222	Yarn and thread mills.....	195,342	57,013	48,529	89,797	204,315	67,999	48,859	87,454
2222	Yarn throwing mills.....	9,004	870	2,486	5,646	8,218	756	2,521	4,940
2223	Thread mills.....	43,030	18,304	14,369	10,357	46,011	18,373	15,226	12,411
2224	Yarn mills, cotton system.....	143,308	37,309	31,674	73,794	150,086	48,870	31,112	70,103
223	Broad-woven fabrics.....	805,431	326,459	183,053	295,917	810,180	332,990	187,339	289,849
2233	Cotton broad-woven fabrics.....	587,061	250,252	111,975	224,833	570,648	243,958	112,815	213,874
2234	Synthetic broad-woven fabrics.....	218,370	76,207	71,078	71,084	239,532	89,032	74,524	75,975
2241	Narrow fabric mills.....	46,418	17,374	11,968	17,075	45,326	17,375	12,371	15,579

See footnotes at end of table.

MANUFACTURERS' INVENTORIES

205-5

Table 2.—VALUE OF MANUFACTURERS' INVENTORIES FOR INDUSTRY GROUPS AND INDUSTRIES: END OF 1954 AND 1953—Continued

(In thousands of dollars)

Code No.	Industry group and industry	Value of inventories at end of year—							
		1954 ¹				1953 ¹			
		Total	Finished products	Work-in-process	Materials, supplies, fuels, etc.	Total	Finished products	Work-in-process	Materials, supplies, fuels, etc.
22	Textile mill products—Continued								
225	Knitting mills.....	349,235	141,440	102,878	104,910	376,072	156,612	104,392	115,060
2251	Full-fashioned hosiery mills.....	90,656	35,536	37,709	17,411	95,108	34,448	40,373	20,287
2252	Seamless hosiery mills.....	68,794	25,666	22,826	20,302	70,728	27,699	21,705	21,324
2253	Knit outerwear mills.....	75,811	35,611	15,457	24,742	83,635	40,783	15,481	27,367
2254	Knit underwear mills.....	58,472	28,159	10,963	19,350	66,336	35,090	10,818	20,428
2255	Knit glove mills.....	2,576	899	(³)	1,389	3,258	1,229	(³)	1,649
2256	Knit fabric mills.....	50,613	14,441	14,996	21,173	54,522	16,231	15,097	23,192
2259	Knitting mills, nec.....	2,313	1,128	642	543	2,485	1,132	539	813
2261	Finishing textiles, except wool.....	92,431	24,543	25,363	42,524	97,936	25,870	26,381	45,683
227	Carpet and rugs.....	189,114	80,480	47,575	61,057	206,464	90,771	48,918	66,773
2271	Wool carpets and rugs.....	122,139	45,900	34,682	41,556	140,002	55,406	37,672	46,923
2273	Carpets and rugs, except wool.....	25,169	9,420	4,975	10,773	22,514	9,769	3,707	9,037
2274	Hard-surface floor coverings.....	41,806	25,160	7,918	8,728	43,948	25,596	7,539	10,813
228	Hats (except cloth and millinery).....	24,100	7,145	4,726	12,223	29,570	8,590	5,606	15,370
2281	Fur-felt hats and hat bodies.....	11,308	2,666	2,607	6,033	14,217	3,411	3,316	7,490
2282	Wool-felt hats and hat bodies.....	2,984	850	(³)	1,675	4,298	1,295	661	2,341
2283	Straw hats.....	6,083	2,119	1,416	2,547	6,781	2,379	1,378	3,023
2284	Hatters' fur.....	3,725	1,510	(³)	1,968	4,274	1,505	(³)	2,516
229	Miscellaneous textile goods.....	156,116	55,612	27,198	73,300	165,223	59,125	27,017	79,075
2291	Felt goods, nec.....	12,830	4,345	1,474	7,010	13,682	4,047	1,363	8,271
2292	Lace goods.....	13,907	5,183	4,446	4,277	15,544	5,539	4,511	5,493
2293	Padding and upholstery filling.....	19,079	4,151	2,091	12,836	19,939	4,030	2,087	13,821
2294	Processed textile waste.....	10,677	4,508	2,290	3,878	10,808	4,604	2,167	4,037
2295	Coated fabric, except rubberized.....	31,348	9,493	6,134	15,720	31,890	10,036	6,159	15,693
2298	Cordage and twine.....	40,578	16,928	6,256	17,393	46,687	20,502	6,654	19,530
2299	Textile goods, nec.....	27,697	11,004	4,507	12,186	26,673	10,367	4,076	12,230
23	Apparel and related products.....	1,464,097	629,437	260,162	574,415	1,555,236	670,329	268,671	616,179
231	Men's and boys' suits and coats.....	191,376	78,935	38,391	74,042	219,594	87,699	44,529	87,360
2311	Men's and boys' suits and coats.....	188,486	78,148	37,796	72,537	216,763	86,910	43,983	85,865
2312	Suit and coat findings.....	2,890	787	595	1,505	2,831	789	546	1,495
232	Men's and boys' furnishings.....	366,967	186,933	52,655	127,358	393,863	205,285	55,611	132,961
2321	Men's dress shirts and nightwear.....	123,102	57,706	24,156	41,239	134,146	66,234	25,008	42,904
2322	Men's and boys' underwear.....	11,701	6,230	2,244	3,223	11,618	6,046	2,099	3,470
2323	Men's and boys' neckwear.....	11,722	5,564	1,428	4,729	12,455	6,372	1,496	4,586
2325	Men's and boys' cloth hats.....	7,844	3,337	1,022	3,484	8,755	3,759	1,121	3,874
2326	Hat and cap materials.....	1,102	731	(³)	(³)	1,089	724	(³)	(³)
2327	Separate trousers.....	68,940	34,891	8,279	25,766	71,965	36,105	8,889	26,968
2328	Work shirts.....	6,106	3,467	532	2,102	6,090	3,328	726	2,033
2329	Men's and boys' clothing, nec.....	136,450	75,007	14,986	46,452	147,745	82,717	16,257	48,767
233	Women's and misses' outerwear.....	307,875	114,036	62,333	131,488	321,118	116,080	64,416	140,608
2331	Blouses.....	25,460	10,425	5,491	9,541	25,704	10,336	5,688	9,677
2333	Dresses, unit price.....	82,307	26,177	19,823	36,304	83,665	27,168	19,362	37,135
2334	Dresses, dozen price.....	53,182	17,556	10,904	24,721	57,909	18,224	11,784	27,898
2337	Women's suits, coats, and skirts.....	106,864	38,438	19,393	49,030	111,664	38,449	20,004	53,209
2338	Women's neckwear and scarfs.....	3,942	2,831	(³)	719	4,496	3,139	(³)	861
2339	Women's outerwear, nec.....	36,120	18,609	6,334	11,173	37,680	18,764	7,085	11,828
234	Women's and children's undergarments.....	153,747	66,715	34,132	52,893	161,575	72,001	34,392	55,176
2341	Women's and children's underwear.....	95,229	39,334	21,973	33,918	103,399	43,886	22,146	37,363
2342	Corsets and allied garments.....	58,518	27,381	12,159	18,975	58,176	28,115	12,246	17,813
2351	Millinery.....	9,929	2,629	1,544	5,756	10,444	2,809	1,619	6,016
236	Children's outerwear.....	83,637	33,207	16,754	33,669	88,702	36,353	16,613	35,727
2361	Children's dresses.....	30,505	10,900	8,420	11,182	30,464	10,983	8,294	11,184
2363	Children's coats.....	15,906	5,581	2,116	8,207	18,400	6,251	2,216	9,931
2369	Children's outerwear, nec.....	37,226	16,726	6,218	14,280	39,838	19,119	6,103	14,612
2371	Fur goods.....	37,845	23,393	5,010	9,441	39,392	24,618	4,649	10,124
238	Miscellaneous apparel.....	77,139	36,296	13,671	27,161	82,874	38,227	15,192	29,449
2381	Fabric dress gloves.....	6,525	2,842	2,202	1,479	6,888	3,083	2,370	1,434
2382	Fabric work gloves.....	14,990	8,443	1,880	4,666	15,322	8,018	2,113	5,190
2383	Suspenders and garters.....	1,305	(³)	(³)	808	1,506	(³)	(³)	933
2384	Robes and dressing gowns.....	9,101	3,565	1,290	4,245	10,328	4,256	1,491	4,580
2385	Waterproof outer garments.....	15,851	8,302	2,396	5,152	17,237	8,888	2,722	5,626
2386	Leather and sheep-lined clothing.....	6,021	2,488	903	2,629	7,335	3,186	986	3,162
2387	Belts.....	10,083	3,673	1,813	4,596	10,648	3,800	1,954	4,894
2388	Handkerchiefs.....	8,728	4,927	2,555	1,245	8,864	4,853	2,724	1,287
2389	Apparel, nec.....	4,535	1,646	547	2,341	4,746	1,663	740	2,343
239	Fabricated textiles, nec.....	235,582	87,293	35,672	112,607	237,674	87,257	31,650	118,758
2391	Curtains and draperies.....	23,726	9,297	3,490	10,938	22,451	8,298	3,493	10,659
2392	Housefurnishings, nec.....	83,983	41,221	11,717	31,044	81,920	40,654	11,567	29,699
2393	Textile bags.....	35,177	11,651	3,712	19,814	33,093	11,209	3,409	18,474
2394	Canvas products.....	24,030	7,032	2,295	14,701	24,039	7,343	2,192	14,503
2395	Tucking, pleating, and stitching.....	558	(³)	(³)	(³)	560	(³)	(³)	(³)
2396	Trimmings and art goods.....	31,814	5,425	9,916	16,472	37,861	7,081	6,319	24,459
2397	Schiffli-machine embroideries.....	4,699	1,441	684	2,572	5,112	1,512	711	2,887
2398	Embroideries, except Schiffli.....	2,974	1,158	(³)	1,482	2,986	1,158	(³)	1,493
2399	Textile products, nec.....	28,621	10,004	3,468	15,148	29,652	9,937	3,587	16,127

See footnotes at end of table.

MANUFACTURES--SUMMARY STATISTICS

Table 2.—VALUE OF MANUFACTURERS' INVENTORIES FOR INDUSTRY GROUPS AND INDUSTRIES: END OF 1954 AND 1953—Continued

(In thousands of dollars)

Code No.	Industry group and industry	Value of inventories at end of year—							
		1954 ¹				1953 ¹			
		Total	Finished products	Work-in-process	Materials, supplies, fuels, etc.	Total	Finished products	Work-in-process	Materials, supplies, fuels, etc.
24	Lumber and products.....	1,142,920	515,625	226,966	400,328	1,151,141	517,749	236,372	397,017
2411	Logging camps and logging contractors.....	96,735	59,063	13,158	24,514	99,812	60,381	13,182	26,248
242	Lumber and basic products.....	599,441	324,905	131,701	142,833	599,934	329,586	134,222	136,124
2421	Sawmills and planing mills.....	569,793	312,120	125,328	132,345	570,196	316,133	127,926	126,137
2422	Veneer mills.....	13,597	7,754	1,242	4,600	14,163	8,307	1,180	4,675
2423	Shingle mills.....	3,288	1,520	737	1,031	2,885	1,358	(3)	1,050
2424	Cooperage stock mills.....	9,934	3,278	4,088	2,567	10,034	3,595	4,339	2,100
2425	Excelsior mills.....	2,829	(3)	(3)	2,290	2,656	(3)	(3)	2,162
243	Millwork and related products.....	257,569	66,585	43,972	147,013	245,970	64,581	42,712	138,677
2431	Millwork plants.....	167,344	48,475	30,814	88,056	157,401	44,568	28,970	83,863
2432	Plywood plants.....	62,654	15,299	8,853	38,502	63,311	16,436	10,137	36,738
2433	Prefabricated wood products.....	27,571	2,811	4,305	20,455	25,258	3,577	3,605	18,076
244	Wooden containers.....	73,729	18,438	15,532	39,759	83,392	17,492	21,585	44,315
2441	Fruit and vegetable baskets.....	5,709	3,979	(3)	1,381	5,429	3,741	(3)	1,338
2442	Rattan and willow ware.....	1,435	554	(3)	649	1,536	606	(3)	688
2443	Cigar boxes.....	1,465	(3)	(3)	1,146	1,333	(3)	(3)	1,054
2444	Wooden boxes.....	44,381	11,777	5,322	27,282	47,978	11,172	6,319	30,487
2445	Cooperage.....	20,739	1,899	9,539	9,301	27,116	1,773	14,595	10,748
249	Miscellaneous wood products.....	115,446	46,634	22,603	46,209	122,033	45,709	24,671	51,653
2491	Wood preserving.....	51,914	27,834	9,507	14,573	55,706	26,909	11,451	17,346
2492	Lasts and related products.....	1,535	(3)	(3)	1,203	1,669	(3)	(3)	1,370
2493	Mirror and picture frames.....	7,353	2,381	1,445	3,527	7,690	2,522	1,466	3,702
2499	Wood products, nec.....	54,644	16,243	11,495	26,906	56,968	16,124	11,609	29,235
25	Furniture and fixtures.....	581,828	164,974	138,319	278,520	596,050	159,669	139,617	296,750
251	Household furniture.....	389,304	111,224	86,699	191,376	399,392	109,107	87,692	202,588
2511	Wood house furniture, not upholstered.....	194,105	62,424	51,970	79,709	200,424	60,885	53,013	86,525
2512	Upholstered household furniture.....	71,523	12,626	12,716	46,180	71,254	11,784	13,306	46,163
2514	Metal household furniture.....	59,279	20,016	11,799	27,463	62,481	19,396	11,631	31,453
2515	Mattresses and bedsprings.....	62,578	15,600	9,798	37,180	63,323	16,455	9,395	37,472
2519	Household furniture, nec.....	1,819	558	(3)	844	1,910	587	(3)	975
252	Office furniture.....	46,693	14,774	12,847	19,070	49,637	14,766	12,894	21,975
2521	Wood office furniture.....	9,705	2,844	2,681	4,179	9,789	2,767	2,647	4,374
2522	Metal office furniture.....	36,988	11,930	10,166	14,891	39,848	11,999	10,247	17,601
253	Public and professional furniture.....	40,332	9,760	13,685	16,885	40,433	7,641	14,461	18,329
2531	Public-building furniture.....	28,315	7,469	8,938	11,907	27,428	5,294	9,359	12,774
2532	Professional furniture.....	12,017	2,291	4,747	4,978	13,005	2,347	5,102	5,555
2541	Partitions and fixtures.....	57,054	13,865	16,826	26,362	55,951	12,577	16,180	27,194
256	Screens, shades, and blinds.....	39,880	13,612	6,310	19,954	42,286	14,066	6,642	21,576
2561	Window and door screens.....	11,959	2,874	2,706	6,378	13,688	3,085	2,862	7,740
2562	Window shades.....	13,648	6,155	1,945	5,546	13,820	6,311	2,062	5,447
2563	Venetian blinds.....	14,273	4,583	1,659	8,030	14,778	4,670	1,718	8,389
259	Furniture and fixtures, nec.....	8,565	1,739	1,952	4,873	8,351	1,512	1,748	5,088
2591	Restaurant furniture.....	6,843	1,370	1,593	3,880	6,586	1,188	1,410	3,986
2599	Furniture and fixtures, nec.....	1,722	(3)	(3)	993	1,765	(3)	(3)	1,102
26	Pulp, paper and products.....	1,090,879	298,742	103,872	688,263	1,089,375	277,624	100,628	711,118
261	Pulp, paper and board.....	491,999	97,291	26,108	368,598	494,972	88,318	23,412	383,238
2611	Pulp mills.....	161,526	18,878	4,455	138,193	171,687	17,218	3,441	151,026
2612	Paper and paperboard mills.....	311,136	72,338	20,707	218,090	303,679	65,154	18,998	219,526
2613	Building paper and board mills.....	19,337	6,075	946	12,315	19,606	5,946	973	12,686
2641	Paper coating and glazing.....	75,792	28,223	10,135	37,434	78,345	27,582	9,462	41,301
2651	Envelopes.....	24,450	6,177	2,754	15,519	24,142	5,720	2,684	15,738
2661	Paper bags.....	69,939	21,902	4,065	43,972	67,295	20,128	3,555	43,612
267	Paperboard containers.....	221,141	56,037	34,635	130,469	224,733	52,934	35,130	136,669
2671	Paperboard boxes.....	207,324	53,889	33,032	120,403	208,574	50,825	33,345	124,404
2674	Fiber cans, tubes, drums, etc.....	13,817	2,148	1,603	10,066	16,159	2,109	1,785	12,265
269	Pulp, paper and board products, nec.....	207,558	89,112	26,175	92,271	199,888	82,942	26,385	90,560
2691	Die-cut paper and board.....	24,122	6,786	4,411	12,925	23,644	6,643	4,302	12,699
2693	Wallpaper.....	11,576	8,231	652	2,693	11,052	7,965	578	2,509
2694	Pulp goods, pressed and molded.....	4,463	2,840	(3)	1,527	3,734	2,279	(3)	1,351
2699	Paper and board products, nec.....	167,397	71,255	21,016	75,126	161,458	66,055	21,401	74,001
27	Printing and publishing industries.....	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)
28	Chemicals and products.....	2,852,860	1,178,659	407,237	1,266,959	2,948,218	1,178,286	418,720	1,351,205
281	Inorganic chemicals.....	249,422	82,132	28,782	138,511	240,118	74,082	26,494	139,543
2811	Sulfuric acid.....	15,295	6,468	(3)	8,449	16,073	6,216	(3)	9,660
2812	Alkalies and chlorine.....	47,280	17,911	2,505	26,864	46,691	15,892	2,446	28,353
2819	Inorganic chemicals, nec.....	186,847	57,753	25,896	103,198	177,354	51,974	23,850	101,530
282	Organic chemicals.....	894,155	404,801	147,039	342,315	936,502	412,292	158,106	366,104
2821	Cyclic (coal tar) crudes.....	13,354	6,715	1,784	4,855	12,791	7,665	1,301	3,825
2822	Intermediates and organic colors.....	157,250	60,329	43,031	53,890	166,923	63,570	43,624	59,729
2823	Plastics materials.....	136,032	60,438	21,182	54,412	141,113	58,357	23,558	59,198
2824	Synthetic rubber.....	48,520	33,371	2,228	12,921	61,608	43,711	2,343	15,554
2825	Synthetic fibers.....	131,297	50,862	21,659	58,776	152,842	62,032	29,041	61,769
2826	Explosives.....	134,714	66,936	16,106	51,672	120,435	52,417	15,663	52,355
2829	Organic chemicals, nec.....	272,988	126,150	41,049	105,789	280,790	124,540	42,576	113,674

See footnotes at end of table.

MANUFACTURERS' INVENTORIES

205-7

Table 2.—VALUE OF MANUFACTURERS' INVENTORIES FOR INDUSTRY GROUPS AND INDUSTRIES: END OF 1954 AND 1953—Continued

(In thousands of dollars)

Code No.	Industry group and industry	Value of inventories at end of year—							
		1954 ¹				1953 ¹			
		Total	Finished products	Work-in-process	Materials, supplies, fuels, etc.	Total	Finished products	Work-in-process	Materials, supplies, fuels, etc.
28	Chemicals and products—Continued								
283	Drugs and medicines.....	394,695	143,595	109,348	141,752	394,865	144,504	107,779	142,582
2831	Biological products.....	17,255	6,464	5,911	4,880	15,456	6,693	4,274	4,489
2833	Medicinal chemicals (inc. botanicals)	65,823	22,048	22,769	21,006	64,157	22,675	21,730	19,752
2834	Pharmaceutical preparations.....	311,617	115,083	80,668	115,866	315,252	115,136	81,775	118,341
284	Soap and related products.....	187,837	86,443	22,554	78,839	193,862	84,900	28,454	80,508
2841	Soap and glycerine.....	120,012	55,049	17,993	46,970	125,671	52,808	24,464	48,399
2842	Cleaning and polishing preparations.....	58,767	26,991	4,088	27,688	60,364	28,933	3,559	27,872
2843	Sulfonated oils and assistants.....	9,058	4,403	(³)	4,181	7,827	3,159	(³)	4,237
285	Paints and allied products.....	301,812	141,790	23,823	136,197	308,483	143,748	23,715	141,019
2851	Paints and varnishes.....	232,647	116,043	17,271	99,333	235,109	112,732	17,290	105,087
2852	Inorganic color pigments.....	66,490	25,011	6,507	34,972	70,842	30,345	6,380	34,117
2853	Whiting and fillers.....	2,675	736	(³)	1,892	2,532	671	(³)	1,815
286	Gum and wood chemicals.....	24,585	11,724	964	11,895	25,588	12,481	877	12,227
2861	Hardwood distillation.....	3,439	1,353	(³)	1,882	3,181	964	(³)	2,028
2862	Softwood distillation.....	15,967	7,281	599	8,087	16,473	8,693	529	7,251
2863	Gum naval stores.....	2,649	1,448	(³)	1,113	1,822	870	(³)	879
2865	Tanning and dyeing materials.....	2,530	1,642	(³)	813	4,112	1,954	(³)	2,069
287	Fertilizers.....	159,526	71,527	23,529	64,470	163,800	68,924	24,260	70,616
2871	Fertilizers.....	93,779	40,298	15,731	37,750	95,395	38,778	15,463	41,154
2872	Fertilizers, mixing only.....	65,747	31,229	7,798	26,720	68,405	30,146	8,797	29,462
288	Vegetable and animal oils.....	338,416	86,500	30,264	221,652	379,442	83,364	28,647	267,430
2881	Cottonseed oil mills.....	141,887	34,056	20,874	86,957	135,071	27,813	19,954	87,304
2882	Linseed oil mills.....	26,324	9,383	...	16,941	28,096	11,291	...	16,805
2883	Soybean oil mills.....	120,075	16,115	868	103,092	166,480	18,534	923	147,023
2884	Vegetable oil mills, nec.....	18,357	6,599	4,393	7,365	19,251	6,914	4,160	8,177
2886	Grease and tallow.....	12,476	9,426	853	2,197	11,269	8,384	842	2,043
2887	Fatty acids.....	10,520	5,009	2,922	2,589	9,503	4,107	2,528	2,868
2889	Animal oils, nec.....	8,777	5,912	(³)	2,511	9,772	6,321	(³)	3,210
289	Chemical products, nec.....	302,412	150,147	20,934	131,328	305,558	153,991	20,388	131,176
2891	Printing ink.....	21,717	8,972	1,042	11,703	21,419	8,721	953	11,745
2892	Essential oils.....	5,272	2,110	695	2,467	4,780	2,118	666	1,996
2893	Toilet preparations.....	86,330	35,827	5,295	45,208	90,076	38,239	5,641	46,196
2894	Glue and gelatin.....	29,190	15,438	3,067	10,685	28,524	14,080	3,462	10,982
2895	Carbon black.....	16,873	14,835	(³)	2,009	18,998	16,956	(³)	2,010
2896	Compressed and liquefied gases.....	10,021	6,203	(³)	3,733	10,304	6,518	(³)	3,739
2897	Insecticides and fungicides.....	50,645	30,819	2,482	17,344	51,117	31,510	2,349	17,258
2898	Salt.....	6,447	940	934	4,573	6,908	937	732	5,239
2899	Chemical products, nec.....	75,917	35,003	7,307	33,606	73,432	34,912	6,508	32,011
29	Petroleum and coal products.....	1,582,011	861,802	278,295	441,913	1,627,145	858,504	280,083	488,557
2911	Petroleum refining.....	1,348,081	779,105	268,478	300,498	1,361,045	783,530	269,562	307,953
293	Coke and byproducts.....	151,714	43,780	4,852	103,082	183,487	35,883	5,545	142,059
2931	Beehive coke ovens.....	(³)	(³)	(³)	(³)	(³)	(³)	(³)	(³)
2932	Byproduct coke ovens.....	151,417	43,673	4,835	102,909	183,182	35,781	5,525	141,876
295	Paving and roofing materials.....	38,827	19,629	2,314	16,884	38,531	18,694	2,137	17,700
2951	Paving mixtures and blocks.....	6,215	3,169	(³)	2,705	5,827	2,893	(³)	2,620
2952	Roofing felts and coatings.....	32,612	16,460	1,973	14,179	32,704	15,801	1,823	15,080
299	Petroleum and coal products, nec.....	43,389	19,288	2,651	21,449	44,082	20,397	2,839	20,845
2992	Lubricants, nec.....	33,756	17,082	2,548	14,126	35,430	18,731	2,709	13,990
2999	Petroleum and coal products, nec.....	9,633	2,206	(³)	7,323	8,652	1,666	(³)	6,855
30	Rubber products.....	589,731	289,671	93,199	206,860	618,223	299,392	89,009	229,821
3011	Tires and inner tubes.....	301,179	162,143	38,618	100,418	325,486	170,239	34,335	120,912
3021	Rubber footwear.....	36,622	24,607	4,228	7,787	38,248	25,712	4,174	8,362
3031	Reclaimed rubber.....	7,556	2,093	(³)	5,024	6,813	2,212	(³)	4,285
3099	Rubber industries, nec.....	244,374	100,828	49,915	93,631	247,676	101,229	50,185	96,262
31	Leather and leather goods.....	489,081	167,090	120,608	201,375	509,533	169,511	126,393	213,620
3111	Leather tanning and finishing.....	149,366	45,674	60,343	43,348	156,343	46,447	64,391	45,505
3121	Industrial leather belting.....	11,502	4,803	3,528	3,170	12,864	4,946	4,420	3,497
3131	Footwear cut stock.....	30,970	11,094	3,563	16,312	33,263	13,212	3,280	16,771
314	Footwear, except rubber.....	223,911	73,882	41,439	108,588	232,594	74,630	41,589	116,374
3141	Footwear, except rubber.....	213,930	70,145	40,267	103,517	222,321	71,237	40,372	110,711
3142	House slippers.....	9,981	3,737	1,172	5,071	10,273	3,393	1,217	5,663
315	Leather gloves.....	9,950	4,556	1,805	3,588	11,710	5,228	2,201	4,279
3151	Leather dress gloves.....	5,930	2,669	1,117	2,143	6,995	3,379	1,329	2,286
3152	Leather work gloves.....	4,020	1,887	688	1,445	4,715	1,849	872	1,993
3161	Luggage.....	27,799	11,324	3,898	12,576	27,165	9,847	4,213	13,104
317	Purses and small leather goods.....	26,358	10,791	4,775	10,791	26,609	10,495	5,040	11,072
3171	Handbags and purses.....	17,514	7,028	3,283	7,202	17,545	6,777	3,445	7,321
3172	Small leather goods.....	8,844	3,763	1,492	3,589	9,064	3,718	1,595	3,751
319	Miscellaneous leather goods.....	9,225	4,966	1,257	3,002	8,985	4,706	1,259	3,018
3192	Saddlery, harness, and whips.....	2,800	1,573	399	828	2,925	1,584	430	910
3199	Leather goods, nec.....	6,425	3,393	858	2,174	6,060	3,122	829	2,108
32	Stone, clay, and glass products.....	805,670	353,165	99,878	352,600	823,416	355,089	103,820	364,481
3211	Flat glass.....	43,406	11,868	6,900	24,637	49,197	16,526	8,179	24,492
322	Pressed and blown glassware.....	126,032	76,014	8,185	41,830	124,464	73,574	8,928	41,960
3221	Glass containers.....	68,917	43,998	793	24,125	63,337	38,267	757	24,312
3229	Pressed and blown glassware, nec.....	57,115	32,016	7,392	17,705	61,127	35,307	8,171	17,648

. See footnotes at end of table.

MANUFACTURES—SUMMARY STATISTICS

Table 2.—VALUE OF MANUFACTURERS' INVENTORIES FOR INDUSTRY GROUPS AND INDUSTRIES: END OF 1954 AND 1953—Continued

(In thousands of dollars)

Code No.	Industry group and industry	Value of inventories at end of year—							
		1954 ¹				1953 ¹			
		Total	Finished products	Work-in-process	Materials, supplies, fuels, etc.	Total	Finished products	Work-in-process	Materials, supplies, fuels, etc.
32	Stone, clay, and glass products—Con.								
322	Pressed and blown glassware—Continued								
3231	Products of purchased glass.....	30,265	10,337	4,922	15,005	33,300	12,113	6,122	15,063
3241	Cement, hydraulic.....	104,848	25,866	8,802	70,179	112,813	29,553	8,981	74,278
325	Structural clay products.....	88,183	51,753	11,327	25,099	89,319	52,374	11,649	25,291
3251	Brick and hollow tile.....	25,854	17,885	3,476	4,492	27,040	19,033	3,496	4,509
3253	Floor and wall tile.....	13,503	7,324	2,270	3,908	12,518	7,011	2,049	3,457
3254	Sewer pipe.....	9,805	6,370	1,523	1,911	9,526	6,188	1,426	1,912
3255	Clay refractories.....	34,316	17,136	3,116	14,064	35,760	17,584	3,519	14,656
3259	Structural clay products, nec.....	4,705	3,038	942	724	4,475	2,558	1,159	757
326	Pottery and related products.....	56,356	23,285	11,208	21,858	62,685	27,914	11,303	23,463
3261	Vitreous plumbing fixtures.....	16,550	6,835	2,258	7,456	18,896	9,706	1,834	7,355
3262	Vitreous-china food utensils.....	9,504	3,976	2,804	2,724	9,516	3,990	2,765	2,761
3263	Earthenware food utensils.....	12,513	5,691	1,832	4,989	14,374	6,628	2,048	5,697
3264	Porcelain electrical supplies.....	11,024	3,159	3,540	4,324	13,018	3,849	3,909	5,259
3265	China decorating for the trade.....	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)
3269	Pottery products, nec.....	6,317	3,363	745	2,208	6,445	3,494	719	2,231
327	Concrete and plaster products.....	127,263	66,215	7,398	53,647	121,981	60,716	6,842	54,419
3271	Concrete products.....	86,604	56,725	5,497	24,381	81,622	52,033	5,084	24,503
3272	Gypsum products.....	17,055	2,937	590	13,527	16,836	2,918	575	13,342
3274	Lime.....	10,397	1,636	712	8,049	11,352	1,598	651	9,102
3275	Mineral wool.....	13,207	4,917	599	7,690	12,171	4,167	532	7,472
3281	Cut-stone and stone products.....	21,264	6,863	5,352	9,048	20,921	6,903	5,197	8,820
329	Nonmetallic mineral products, nec.....	208,053	80,964	35,784	91,297	208,736	75,416	36,619	96,695
3291	Abrasive products.....	71,472	29,154	15,849	26,467	68,477	24,997	16,558	26,921
3292	Asbestos products.....	56,646	24,361	9,121	23,163	54,299	22,299	8,593	23,406
3293	Gaskets and asbestos insulations.....	24,949	9,449	4,613	10,886	25,919	9,546	4,720	11,652
3295	Minerals: ground or treated.....	14,386	4,254	2,195	7,936	14,998	4,122	2,111	8,765
3297	Nonclay refractories.....	28,853	11,194	2,423	15,235	30,859	11,853	2,809	16,196
3298	Statuary and art goods.....	1,526	901	(3)	(3)	889	(3)	(3)	(3)
3299	Nonmetallic mineral products, nec.....	10,221	1,651	1,352	7,217	12,685	1,710	1,582	9,392
33	Primary metal industries.....	3,496,264	891,878	1,062,545	1,541,835	3,649,143	867,267	1,098,780	1,683,090
331	Blast furnaces and steel mills.....	1,991,937	494,062	522,779	975,093	2,033,922	458,120	527,063	1,048,738
3312	Steel works and rolling mills.....	1,865,330	466,360	498,140	900,828	1,906,694	429,308	507,525	969,860
3313	Electrometallurgical products.....	126,607	27,702	24,639	74,265	127,228	28,812	19,538	78,878
332	Iron and steel foundries.....	221,313	59,856	47,905	113,550	259,578	64,940	58,239	136,397
3321	Gray-iron foundries.....	126,102	40,208	17,487	68,407	143,013	42,011	17,293	83,709
3322	Malleable-iron foundries.....	24,786	9,160	4,981	10,644	28,933	10,592	5,543	12,797
3323	Steel foundries.....	70,425	10,488	25,437	34,499	87,632	12,337	35,403	39,891
333	Primary nonferrous metals.....	260,699	64,816	115,115	80,767	289,447	82,087	129,009	78,349
3331	Primary copper.....	75,235	14,414	49,634	11,187	80,655	18,734	51,499	10,421
3332	Primary lead.....	54,852	21,681	27,043	6,128	63,144	18,962	37,794	6,388
3333	Primary zinc.....	52,549	14,742	9,452	28,355	63,976	24,534	11,671	27,771
3334	Primary aluminum.....	55,297	6,568	18,939	29,790	59,213	12,076	18,718	28,419
3339	Primary nonferrous metals, nec.....	22,766	7,411	10,047	5,307	22,459	7,781	9,327	5,350
3341	Secondary nonferrous metals.....	101,490	51,772	25,533	24,185	94,958	47,284	27,811	19,862
335	Nonferrous rolling and drawing.....	362,409	72,487	182,485	107,437	348,887	69,422	168,615	110,850
3351	Copper rolling and drawing.....	141,392	27,368	61,195	52,829	144,235	24,790	62,926	56,519
3352	Aluminum rolling and drawing.....	150,841	25,922	93,073	31,846	140,389	25,265	81,233	33,891
3359	Nonferrous rolling and drawing, nec.....	70,176	19,197	28,217	22,762	64,263	19,367	24,456	20,440
3361	Nonferrous foundries.....	96,304	19,873	32,976	43,455	106,745	21,470	37,884	47,391
339	Primary metal industries, nec.....	462,112	129,012	135,752	197,348	515,606	123,944	150,159	241,503
3391	Iron and steel forgings.....	97,967	10,565	28,930	58,472	138,020	10,818	40,179	87,023
3392	Wire drawing.....	211,510	81,606	62,600	67,304	213,734	78,978	64,051	70,705
3393	Welded and heavy-riveted pipe.....	74,256	20,622	20,516	33,118	80,379	18,891	20,065	41,423
3399	Primary metal industries, nec.....	78,379	16,219	23,706	38,454	83,473	15,257	25,864	42,352
34	Fabricated metal products.....	2,482,121	648,163	744,621	1,089,318	2,740,810	662,114	810,346	1,268,335
3411	Tin cans and other tinware.....	242,179	69,070	53,481	119,628	228,397	53,297	52,410	122,689
342	Cutlery, tools, and hardware.....	325,268	95,867	122,253	107,143	357,138	102,120	130,654	124,361
3421	Cutlery.....	40,534	13,835	12,234	14,465	44,373	15,249	12,792	16,332
3422	Edge tools.....	12,742	3,716	4,290	4,735	14,077	3,225	5,029	5,823
3423	Hand tools, nec.....	69,398	28,208	23,544	17,646	77,708	32,185	24,662	20,861
3424	Files.....	7,539	2,669	2,805	2,064	7,677	2,389	2,777	2,510
3425	Hand saws and saw blades.....	21,435	8,406	5,049	7,978	26,817	11,052	5,896	9,867
3429	Hardware, nec.....	173,620	39,033	74,331	60,255	186,486	38,020	79,498	68,968
343	Heating and plumbing equipment.....	322,013	127,511	66,286	128,216	356,872	135,174	73,326	148,372
3431	Plumbing fixtures and fittings.....	81,041	27,539	23,141	30,361	90,331	34,865	21,779	33,687
3439	Heating and cooking apparatus, nec.....	240,972	99,972	43,145	97,855	266,541	100,309	51,547	114,685
344	Structural metal products.....	794,654	121,997	314,555	358,101	895,825	127,332	350,324	418,168
3441	Structural and ornamental products.....	372,931	39,224	163,606	170,101	410,754	38,273	183,660	188,821
3442	Metal doors, sash, and trim.....	93,884	20,766	24,307	48,811	100,136	19,924	25,428	54,783
3443	Boiler shop products.....	227,052	33,180	99,717	94,155	278,075	38,226	113,922	125,927
3444	Sheet-metal work.....	100,787	28,827	26,925	45,034	106,860	30,909	27,314	48,637
346	Metal stamping and coating.....	275,478	62,751	67,640	145,080	328,293	68,520	77,734	182,034
3461	Vitreous-enameled products.....	10,656	2,752	2,429	5,473	12,847	3,178	2,552	7,116
3463	Metal stampings.....	239,313	56,747	60,346	122,219	289,520	61,546	70,432	157,542
3465	Enameling and lacquering.....	2,624	(3)	(3)	1,822	2,871	(3)	(3)	1,954
3466	Galvanizing.....	3,466	913	546	2,006	3,505	883	531	2,090
3467	Engraving on metal.....	2,239	(3)	663	1,436	2,469	(3)	828	1,509
3468	Plating and polishing.....	17,180	1,789	3,267	12,124	17,081	2,293	2,964	11,823

See footnotes at end of table.

MANUFACTURERS' INVENTORIES

205-9

Table 2.—VALUE OF MANUFACTURERS' INVENTORIES FOR INDUSTRY GROUPS AND INDUSTRIES: END OF 1954 AND 1953—Continued

(In thousands of dollars)

Code No.	Industry group and industry	Value of inventories at end of year—							
		1954 ¹				1953 ¹			
		Total	Finished products	Work-in-process	Materials, supplies, fuels, etc.	Total	Finished products	Work-in-process	Materials, supplies, fuels, etc.
34	Fabricated metal products—Continued								
346	Metal stamping and coating—Continued								
3471	Lighting fixtures.....	91,964	26,636	32,779	32,549	99,004	26,320	35,701	36,983
348	Fabricated wire products, nec.....	126,003	50,902	24,174	50,927	136,987	53,125	25,024	58,838
3481	Nails and spikes.....	6,557	2,905	1,167	2,485	6,865	2,919	1,309	2,637
3489	Wirework, nec.....	119,446	47,997	23,007	48,442	130,122	50,206	23,715	56,201
349	Metal products, nec.....	304,562	93,429	63,453	147,674	338,294	96,226	65,173	176,890
3491	Metal barrels, drums, and pails.....	36,362	5,686	6,098	24,578	42,805	8,228	5,139	29,438
3492	Safes and vaults.....	8,824	2,341	2,979	3,503	8,542	1,933	3,163	3,445
3493	Steel springs.....	16,942	2,860	3,651	10,431	20,977	3,469	4,349	13,158
3494	Bolts, nuts, washers, and rivets.....	138,380	61,140	21,351	55,888	150,132	59,415	21,264	69,454
3495	Screw machine products.....	37,434	7,132	11,512	18,788	46,666	8,571	14,371	23,723
3496	Collapsible tubes.....	4,079	769	961	2,348	3,755	906	755	2,093
3497	Metal foil.....	21,633	3,635	7,186	10,811	18,121	3,775	3,980	10,366
3499	Fabricated metal products, nec.....	40,908	9,866	9,715	21,327	47,296	9,929	12,152	25,213
35	Machinery, except electrical.....	4,698,071	1,547,705	1,798,385	1,351,957	5,293,801	1,582,235	2,138,517	1,573,025
351	Engines and turbines.....	317,343	66,270	174,291	76,781	374,097	76,671	209,034	88,390
3511	Steam engines and turbines.....	122,702	22,525	76,332	23,844	145,164	28,861	85,937	30,365
3519	Internal combustion engines.....	194,641	43,745	97,959	52,937	228,933	47,810	123,097	58,025
352	Tractors and farm machinery.....	575,521	217,840	171,307	186,373	643,765	239,642	186,284	217,837
3521	Tractors.....	227,085	74,736	70,231	82,117	262,166	85,491	79,614	97,059
3522	Farm machinery (except tractors).....	348,436	143,104	101,076	104,256	381,599	154,151	106,670	120,778
353	Construction and mining machinery.....	466,776	181,000	144,232	141,544	505,743	178,877	163,262	163,604
3531	Construction and mining machinery.....	338,843	122,399	112,754	103,690	374,546	125,324	129,124	120,098
3532	Oilfield machinery and tools.....	127,933	58,601	31,478	37,854	131,197	53,553	34,138	43,506
354	Metalworking machinery.....	645,317	164,580	307,015	173,720	783,102	164,681	406,522	211,899
3541	Machine tools.....	245,918	61,684	127,009	57,225	309,176	65,033	174,096	70,047
3542	Metalworking machinery.....	231,283	64,478	104,807	61,999	263,382	61,941	126,980	74,461
3544	Special dies and tools.....	82,767	5,770	51,346	25,649	107,805	5,192	69,250	33,362
3545	Metalworking machinery attachments.....	85,349	32,648	23,853	28,847	102,739	32,515	36,196	34,029
355	Special-industry machinery, nec.....	529,469	174,849	205,342	149,271	570,896	175,152	228,860	166,877
3551	Food-products machinery.....	114,038	41,458	36,538	36,041	118,685	39,076	40,757	38,851
3552	Textile machinery.....	85,788	23,591	30,100	32,096	94,576	25,203	31,863	37,509
3553	Woodworking machinery.....	36,007	12,779	13,072	10,155	38,297	13,891	14,287	10,117
3554	Paper-industries machinery.....	47,211	5,905	27,891	13,415	53,468	6,606	31,860	15,001
3555	Printing-trades machinery.....	67,046	19,019	36,388	11,638	70,817	17,318	39,903	13,595
3559	Special-industry machinery, nec.....	179,379	72,097	61,353	45,926	195,053	73,058	70,190	51,804
356	General industrial machinery.....	695,492	202,278	263,070	230,140	783,231	202,951	320,572	259,703
3561	Pumps and compressors.....	225,453	80,719	89,912	54,821	247,465	85,379	104,046	58,039
3562	Elevators and escalators.....	46,024	7,886	12,965	25,171	47,262	6,001	17,977	23,283
3563	Conveyors.....	95,166	19,474	35,262	40,430	112,059	16,507	47,971	47,580
3564	Blowers and fans.....	47,475	11,198	16,942	19,335	52,841	10,067	19,984	22,789
3565	Industrial trucks and tractors.....	61,791	18,604	24,662	18,525	69,817	20,366	26,300	23,151
3566	Power-transmission equipment.....	115,983	41,762	41,212	33,009	133,637	41,241	53,439	38,957
3567	Industrial furnaces and ovens.....	25,996	3,326	12,197	10,473	30,601	3,140	15,136	12,325
3568	Mechanical stokers.....	3,495	1,898	691	905	3,414	1,672	676	1,065
3569	General industrial machinery, nec.....	74,109	17,411	29,227	27,471	86,135	18,578	35,043	32,514
357	Office and store machines.....	260,852	64,692	158,418	37,741	273,927	58,662	172,081	43,182
3571	Computing and related machines.....	150,291	32,613	100,018	17,660	159,866	27,981	112,926	18,959
3572	Typewriters.....	38,905	7,913	24,821	6,170	36,903	6,333	23,525	7,044
3576	Scales and balances.....	14,483	3,769	6,929	3,785	16,030	3,969	5,490	6,570
3579	Office and store machines, nec.....	57,173	20,397	26,650	10,126	61,128	20,379	30,140	10,609
358	Service and household machines.....	648,147	269,609	184,483	194,050	766,901	284,077	241,064	241,757
3581	Domestic laundry equipment.....	63,288	17,857	18,699	26,732	86,037	28,657	26,676	30,702
3582	Laundry and dry-cleaning machinery.....	22,168	6,418	3,611	12,139	26,711	5,828	5,115	15,768
3583	Sewing machines.....	61,184	37,284	14,138	9,762	72,703	38,688	21,153	12,862
3584	Vacuum cleaners.....	23,655	8,563	9,338	5,752	30,195	10,409	12,070	7,715
3585	Refrigeration machinery.....	416,941	182,886	114,212	119,842	484,750	183,660	148,826	152,264
3586	Measuring and dispensing pumps.....	27,486	7,154	12,696	7,636	29,934	7,079	13,893	8,962
3589	Service and household machines, nec.....	33,425	9,447	11,789	12,187	36,571	9,756	13,331	13,484
359	Miscellaneous machinery parts.....	559,154	206,587	190,227	162,337	592,139	201,522	210,838	179,776
3591	Valves and fittings, except plumbers.....	223,047	93,088	70,463	59,496	222,748	84,811	73,085	64,852
3592	Fabricated pipe and fittings.....	37,474	10,778	6,764	19,932	45,879	13,696	9,074	23,109
3593	Ball and roller bearings.....	129,217	46,166	49,569	33,481	140,284	44,109	58,231	37,944
3594	Industrial patterns and molds.....	17,081	3,048	7,818	6,214	18,188	3,354	8,067	6,766
3599	Machine shops.....	152,335	53,507	55,613	43,214	165,040	55,552	62,381	47,105
36	Electrical machinery.....	2,472,123	608,280	1,114,499	749,333	2,826,394	693,584	1,252,490	880,309
361	Electrical industrial apparatus.....	897,992	245,463	373,486	279,041	1,019,356	279,300	425,544	314,508
3611	Wiring devices and supplies.....	116,965	48,139	32,270	36,556	122,022	45,569	34,751	41,702
3612	Carbon and graphite products.....	32,595	6,085	20,090	6,420	31,823	5,420	19,181	7,222
3613	Electrical measuring instruments.....	84,336	17,950	42,651	23,735	98,486	22,112	46,919	29,455
3614	Motors and generators.....	281,595	86,056	118,663	76,875	338,717	100,214	143,264	95,238
3615	Transformers.....	115,790	20,279	51,512	43,998	134,241	28,977	59,169	46,094
3616	Electrical control apparatus.....	193,944	48,796	85,016	60,132	213,559	56,389	96,510	60,659
3617	Electrical welding apparatus.....	36,673	10,836	9,228	16,609	41,946	13,120	9,837	18,988
3619	Electrical industrial apparatus, nec.....	36,094	7,322	14,056	14,716	38,562	7,499	15,913	15,150
3621	Electrical appliances.....	129,897	58,882	36,731	34,282	142,715	57,744	41,623	43,348
3631	Insulated wire and cable.....	48,341	14,582	14,587	19,172	48,375	15,640	15,115	17,619
3641	Engine electrical equipment.....	79,482	17,781	34,304	27,396	95,521	22,579	40,645	32,296
3651	Electric lamps (bulbs).....	41,361	28,360	1,716	11,284	46,112	31,587	1,616	12,908

See footnotes at end of table.

MANUFACTURES—SUMMARY STATISTICS

Table 2.—VALUE OF MANUFACTURERS' INVENTORIES FOR INDUSTRY GROUPS AND INDUSTRIES: END OF 1954 AND 1953—Continued
(In thousands of dollars)

Code No.	Industry group and industry	Value of inventories at end of year--							
		1954 ¹				1953 ¹			
		Total	Finished products	Work-in-process	Materials, supplies, fuels, etc.	Total	Finished products	Work-in-process	Materials, supplies, fuels, etc.
36	Electrical machinery—Continued								
366	Communication equipment.....	1,158,680	203,409	618,936	336,333	1,352,872	246,998	690,862	415,009
3661	Radios and related products.....	830,765	136,758	432,682	261,325	987,966	165,876	497,175	324,915
3662	Electronic tubes.....	105,020	42,864	33,728	28,428	126,276	54,266	36,038	35,972
3663	Phonograph records.....	13,916	7,139	2,358	4,418	13,708	7,005	2,500	4,202
3664	Telephone and telegraph equipment.....	176,352	10,387	134,684	31,281	191,326	13,873	140,169	37,284
3669	Communication equipment, nec.....	32,627	6,261	15,484	10,881	33,596	5,978	14,980	12,636
369	Electrical products, nec.....	116,370	39,803	34,739	41,825	121,443	39,736	37,085	44,621
3691	Storage batteries.....	51,441	16,306	18,949	16,186	51,724	15,918	18,266	17,540
3692	Primary batteries.....	23,123	7,506	6,414	9,202	28,060	9,863	8,289	9,908
3693	X-ray and therapeutic apparatus.....	23,159	9,585	6,661	6,912	21,995	7,162	7,725	7,108
3699	Electrical products, nec.....	18,647	6,406	2,715	9,525	19,664	6,793	2,805	10,065
37	Transportation equipment.....	5,474,477	452,756	3,620,030	1,401,688	5,960,402	579,249	3,723,856	1,657,293
371	Motor vehicles and equipment.....	1,605,230	242,059	700,339	662,831	1,959,742	337,957	841,801	779,982
3713	Truck and bus bodies.....	39,867	5,987	13,685	20,194	40,938	6,183	13,078	21,676
3715	Truck trailers.....	61,982	4,960	13,220	43,802	61,991	5,440	12,910	43,641
3716	Automobile trailers.....	24,499	6,573	3,515	14,411	24,982	6,563	4,096	14,322
3717	Motor vehicles and parts.....	1,478,882	224,539	669,919	584,424	1,831,831	319,771	811,717	700,343
372	Aircraft and parts.....	3,425,902	141,487	2,633,101	651,314	3,427,759	147,960	2,517,471	762,327
3721	Aircraft.....	2,318,766	15,126	1,899,063	404,577	2,001,044	16,065	1,544,620	440,359
3722	Aircraft engines.....	595,811	70,061	379,422	146,328	790,815	64,100	533,162	193,553
3723	Aircraft propellers.....	43,871	12,392	25,968	5,511	53,640	15,237	32,325	6,087
3729	Aircraft equipment, nec.....	467,454	43,908	328,648	94,898	582,260	52,568	407,364	122,328
373	Ships and boats.....	235,856	11,741	169,201	54,914	267,387	11,342	191,424	64,621
3731	Ship building and repairing.....	206,562	4,289	161,086	41,187	238,563	4,987	182,314	51,262
3732	Boat building and repairing.....	29,294	7,452	8,115	13,727	28,824	6,355	9,110	13,359
374	Railroad equipment.....	185,735	52,223	108,948	24,564	279,046	76,969	162,229	39,848
3741	Locomotives and parts.....	79,977	15,569	50,762	13,646	119,544	19,325	72,762	27,457
3742	Railroad and street cars.....	105,758	36,654	58,186	10,918	159,502	57,644	89,467	12,391
3751	Motorcycles and bicycles.....	17,294	4,292	7,643	5,359	21,899	4,135	10,117	7,647
3799	Transportation equipment, nec.....	4,460	954	798	2,706	4,569	886	814	2,868
38	Instruments and related products.....	746,785	187,235	370,035	189,511	796,569	185,562	418,873	192,130
3811	Scientific instruments.....	119,543	9,213	92,812	17,518	142,784	10,774	114,785	17,225
3821	Mechanical measuring instruments.....	178,592	40,005	86,657	51,929	189,315	40,363	92,106	56,846
3831	Optical instruments and lenses.....	30,893	5,790	21,630	3,473	33,844	6,284	24,262	3,298
384	Medical instruments and supplies.....	95,672	38,186	25,720	31,766	97,259	38,565	25,849	32,843
3841	Surgical and medical instruments.....	12,951	4,024	4,519	4,408	13,135	4,555	3,899	4,680
3842	Surgical appliances and supplies.....	61,329	27,447	11,240	22,642	63,203	27,850	11,902	23,450
3843	Dental equipment and supplies.....	21,392	6,715	9,961	4,716	20,921	6,160	10,048	4,713
3851	Ophthalmic goods.....	52,382	20,361	21,477	10,544	57,408	22,846	22,686	11,875
3861	Photographic equipment.....	182,417	49,464	79,982	52,970	187,571	46,316	92,513	48,741
387	Watches and clocks.....	87,286	24,216	41,757	21,311	88,388	20,414	46,672	21,302
3871	Watches and clocks.....	79,717	22,921	37,279	19,515	79,232	19,066	40,816	19,350
3872	Watchcases.....	7,569	1,295	4,478	1,796	9,156	1,348	5,856	1,952
39	Miscellaneous manufactures ⁶	1,852,618	585,855	627,421	639,310	2,088,903	545,741	811,249	731,889
391	Jewelry and silverware.....	130,879	55,797	34,351	40,728	135,668	57,775	34,728	43,161
3911	Jewelry (precious metal).....	65,229	29,597	14,786	20,845	66,101	30,155	14,853	21,093
3912	Jewelers' findings.....	11,766	2,809	6,668	12,356	12,356	2,447	7,108	2,809
3913	Lapidary work.....	6,544	4,782	645	1,117	6,448	4,743	631	1,073
3914	Silverware and plated ware.....	47,340	18,609	16,631	12,098	50,763	20,078	16,797	13,887
393	Musical instruments and parts.....	33,627	6,486	15,957	11,180	34,784	5,738	16,374	12,669
3931	Pianos.....	13,210	2,010	6,872	4,328	14,067	1,514	7,456	5,096
3932	Organs.....	4,587	841	2,158	1,587	4,729	1,342	1,816	1,570
3933	Piano and organ parts.....	5,076	(³)	2,054	2,592	5,410	(³)	2,197	2,818
3939	Musical instruments, nec.....	10,754	3,206	4,873	2,673	10,578	2,487	4,905	3,185
394	Toys and sporting goods.....	160,278	63,059	40,568	56,647	174,335	64,359	46,515	63,457
3941	Games and toys, nec.....	61,296	27,382	13,552	20,361	69,007	26,618	16,062	24,326
3942	Dolls.....	11,130	3,611	2,617	4,901	11,840	3,680	2,917	5,242
3943	Children's vehicles.....	9,489	2,878	2,165	4,446	11,893	3,117	3,048	5,727
3949	Sporting and athletic goods.....	78,363	29,188	22,234	26,939	81,595	28,944	24,488	28,162
395	Office supplies.....	66,879	19,971	22,068	24,833	67,757	20,041	21,577	26,135
3951	Pens and mechanical pencils.....	25,078	6,531	12,541	6,005	25,324	6,815	12,256	6,252
3952	Lead pencils and crayons.....	13,923	4,992	3,685	5,244	13,700	4,740	3,251	5,709
3953	Hand stamps and stencils.....	6,444	2,221	1,620	2,601	6,863	2,285	1,824	2,753
3954	Artists' materials.....	5,875	2,365	1,082	2,427	6,152	2,479	1,877	2,485
3955	Carbon paper and inked ribbons.....	15,559	3,862	3,140	8,556	15,718	3,722	3,059	8,936
396	Costume jewelry and notions.....	91,071	36,696	22,253	32,118	96,800	39,253	23,439	34,105
3961	Costume jewelry.....	27,248	9,610	5,376	12,261	27,490	9,755	5,375	12,360
3962	Artificial flowers.....	6,403	2,872	821	2,709	6,236	2,597	846	2,792
3963	Buttons.....	12,266	5,401	3,111	3,753	12,245	5,175	3,156	3,913
3964	Needles, pins, and fasteners.....	45,154	18,813	12,945	13,395	50,829	21,726	14,062	15,040
3971	Plastics products, nec.....	141,974	47,841	31,910	62,223	142,537	43,706	32,318	66,513

See footnotes at end of table.

MANUFACTURERS' INVENTORIES

205-11

Table 2.—VALUE OF MANUFACTURERS' INVENTORIES FOR INDUSTRY GROUPS AND INDUSTRIES: END OF 1954 AND 1953—Continued

(In thousands of dollars)

Code No.	Industry group and industry	Value of inventories at end of year—							
		1954 ¹				1953 ¹			
		Total	Finished products	Work-in-process	Materials, supplies, fuels, etc.	Total	Finished products	Work-in-process	Materials, supplies, fuels, etc.
39	Miscellaneous manufactures ⁶ —Continued								
398 } 399 }	Miscellaneous manufactures ⁶	1,227,910	356,005	460,314	411,581	1,437,023	314,869	636,298	485,849
3981	Brooms and brushes.....	51,071	22,236	5,979	22,856	52,891	22,553	5,861	24,477
3982	Cork products.....	6,026	2,004	1,318	2,704	5,727	2,260	1,289	2,178
3983	Matches.....	12,507	4,997	2,072	5,438	13,284	4,710	2,219	6,355
3984	Candles.....	5,247	2,886	563	1,798	5,088	2,718	578	1,792
3985	Fireworks and pyrotechnics.....	3,539	1,002	804	1,733	4,801	1,151	1,148	2,502
3986	Jewelry and instrument cases.....	9,949	2,675	3,510	3,764	11,429	2,727	4,163	4,539
3987	Lamp shades.....	3,968	1,560	742	1,666	3,977	1,588	720	1,669
3988	Morticians' goods.....	33,298	8,500	8,316	16,482	33,647	8,189	8,319	17,139
3991	Beauty and barber-shop equipment.....	3,045	996	968	1,079	3,085	944	986	1,153
3992	Furs, dressed and dyed.....	1,790	(³)	663	797	1,850	(³)	593	934
3993	Signs and advertising displays.....	36,453	7,329	10,527	18,596	36,272	6,416	10,683	19,172
3994	Hairwork.....	1,517	602	581	(³)	1,730	668	667	(³)
3995	Umbrellas, parasols, and canes.....	5,200	1,933	1,266	2,000	5,930	2,166	1,492	2,272
3996	Tobacco pipes.....	3,231	1,169	815	1,246	3,560	1,334	855	1,370
3997	Soda-fountain and bar equipment.....	4,699	2,104	1,385	1,208	5,166	2,625	1,164	1,376
3999	Miscellaneous products, nec.....	47,177	17,437	15,117	14,623	49,329	17,769	16,891	14,668
1951	Small arms.....	35,679	10,048	17,528	8,102	50,985	10,046	29,088	11,851
1961	Small arms ammunition.....	131,308	14,603	21,825	94,879	145,767	15,919	28,495	101,352
19--	Ordnance and accessories except industries 1951 and 1961.....	832,206	253,596	366,335	212,277	1,002,505	210,763	521,087	270,656

Note: Figures may not add to the totals because of independent rounding.

¹In 1954, establishments that reported on the short form (generally those with less than six employees) were asked to show only their total beginning and end of year inventories. The 1954 totals were prorated on the basis 1954 industry averages of the establishments that reported detailed inventory by type to obtain inventory figures representing all establishments for 1954.

²Separate figures for work-in-process inventories were not requested for Industry 2011, Meat Packing, and Industry 2013, Prepared Meats, but were combined with the inventories of finished products.

³The figure is less than a half million dollars and is included in all totals.

⁴The total inventories reported in the 1954 Census for Industry 2141 were allocated by type of inventory on the basis of the distribution reported in the 1953 Annual Survey of Manufactures.

⁵Inventory data were not collected from establishments classified in the printing and publishing industries.

⁶Includes privately owned and/or operated establishments classified in Major Industry Group 19, "Ordnance and Accessories." (Establishments which are government owned and operated are not included.)

Chapter VI.—Expenditures for Plant and Equipment

Table 1.—MANUFACTURERS' EXPENDITURES FOR NEW PLANT AND EQUIPMENT, BY MAJOR INDUSTRY GROUP: 1954 AND EARLIER YEARS

(In thousands of dollars. For explanation of column captions see Introduction)

Code	Major industry group	1954 ¹			1953 ²			1952 ²		
		Total expenditures for new plant and equipment	Expenditures for—		Total expenditures for new plant and equipment	Expenditures for—		Total expenditures for new plant and equipment	Expenditures for—	
			Establishments in operation	Establishments under construction ³		Establishments in operation	Establishments under construction		Establishments in operation	Establishments under construction
	All industries, total.....	8,202,142	7,818,155	383,987	8,047,892	7,541,606	506,286	7,883,369	7,525,923	357,446
20	Food and kindred products ⁴	800,834	789,050	11,784	593,019	544,698	48,321	540,889	526,658	14,231
21	Tobacco manufactures.....	28,018	28,018	...	29,420	29,420	...	22,338	22,338	...
22	Textile mill products.....	230,059	225,914	4,145	263,571	255,549	8,022	330,303	322,668	7,635
23	Apparel and related products....	76,552	76,552	(D)	60,701	60,161	540	54,657	54,657	...
24	Lumber and wood products ⁴	235,547	217,361	18,186	183,326	182,995	331	180,343	177,820	2,523
25	Furniture and fixtures.....	61,945	61,945	...	60,245	59,490	755	55,441	55,200	241
26	Pulp, paper and products.....	532,723	532,723	(D)	445,167	397,208	47,959	383,630	370,648	12,982
27	Printing and publishing.....	237,402	236,897	505	199,114	195,082	4,032	188,956	188,759	197
28	Chemicals and products.....	1,020,644	926,613	94,031	1,092,200	943,977	148,223	1,162,229	1,018,992	143,237
29	Petroleum and coal products....	784,255	753,184	31,071	857,976	833,410	24,566	612,785	612,258	527
30	Rubber products.....	128,575	128,431	144	131,992	127,052	4,940	126,918	126,918	...
31	Leather and leather products....	28,507	28,053	454	24,678	24,455	223	18,745	18,745	...
32	Stone, clay, and glass products.	312,475	300,647	11,848	281,715	279,013	2,702	269,522	250,766	18,756
33	Primary metal products.....	900,759	831,095	69,664	1,211,656	1,170,976	40,680	1,619,221	1,602,941	16,280
34	Fabricated metal products.....	444,085	432,491	11,594	446,208	423,404	22,804	337,861	327,450	10,411
35	Machinery, except electrical....	734,289	713,808	20,481	754,739	683,778	70,961	678,393	616,654	61,739
36	Electrical machinery.....	355,090	340,677	14,413	406,425	369,515	36,910	346,701	331,109	15,592
37	Transportation equipment.....	1,003,172	924,646	78,526	709,592	665,847	43,745	712,483	674,596	37,887
38	Instruments and related products	98,523	94,008	4,515	90,272	90,246	26	77,388	71,636	5,752
39	Miscellaneous manufactures ⁵	178,093	176,036	2,057	205,876	205,330	546	164,566	155,110	9,456
		1951 ²			1950 ²		1949 ²		1947 ¹	
		Total expenditures for new plant and equipment	Expenditures for—		Expenditures for new plant and equipment for establishments in operation	Expenditures for new plant and equipment for establishments in operation	Expenditures for new plant and equipment for establishments in operation	Expenditures for new plant and equipment for establishments in operation	Expenditures for new plant and equipment for establishments in operation	Expenditures for new plant and equipment for establishments in operation
			Establishments in operation	Establishments under construction						
	All industries, total.....	7,781,731	7,205,059	576,672	5,041,299	5,041,299	5,066,941	5,066,941	5,998,099	5,998,099
20	Food and kindred products ⁴	722,872	687,269	35,603	635,245	635,245	723,401	723,401	820,847	820,847
21	Tobacco manufactures.....	17,992	17,992	...	17,654	17,654	22,341	22,341	35,645	35,645
22	Textile mill products.....	413,536	405,459	8,077	365,420	365,420	418,545	418,545	367,510	367,510
23	Apparel and related products....	69,363	69,363	54	62,558	62,558	53,712	53,712	83,945	83,945
24	Lumber and wood products ⁴	240,076	239,583	493	191,817	191,817	147,481	147,481	171,574	171,574
25	Furniture and fixtures.....	55,444	55,444	...	58,087	58,087	41,015	41,015	77,441	77,441
26	Pulp, paper and products.....	435,104	388,645	46,459	299,083	299,083	315,285	315,285	406,779	406,779
27	Printing and publishing.....	244,290	243,806	484	244,396	244,396	254,098	254,098	226,368	226,368
28	Chemicals and products.....	1,087,680	980,478	107,202	602,998	602,998	598,126	598,126	804,958	804,958
29	Petroleum and coal products....	449,532	448,983	549	331,541	331,541	473,704	473,704	399,754	399,754
30	Rubber products.....	116,769	113,706	3,063	79,958	79,958	63,253	63,253	109,783	109,783
31	Leather and leather products....	22,385	22,385	...	25,791	25,791	29,618	29,618	31,301	31,301
32	Stone, clay, and glass products.	343,483	322,702	20,781	222,652	222,652	190,986	190,986	285,066	285,066
33	Primary metal products.....	1,335,749	1,126,715	209,034	548,253	548,253	567,956	567,956	592,177	592,177
34	Fabricated metal products.....	359,924	354,110	5,814	317,027	317,027	230,879	230,879	304,822	304,822
35	Machinery, except electrical....	652,026	631,373	20,653	337,212	337,212	350,554	350,554	517,589	517,589
36	Electrical machinery.....	320,314	296,252	24,062	195,458	195,458	187,284	187,284	244,606	244,606
37	Transportation equipment.....	663,762	599,519	64,243	343,428	343,428	263,712	263,712	354,974	354,974
38	Instruments and related products	85,004	85,004	...	64,446	64,446	57,944	57,944	56,000	56,000
39	Miscellaneous manufactures ⁵	146,426	116,325	30,101	98,275	98,275	77,047	77,047	106,960	106,960

Note: Detailed figures may not add to the totals because of independent rounding and for reasons indicated in the disclosure explanation.

D Withheld to avoid disclosure of data for individual companies. Where the symbol "D" appears for an industry group under the heading, "Establishments under construction," the withheld data have been excluded from the total expenditure figure for that industry group. They are, however, included in "All industries" totals for "Establishment under construction" and for "Total expenditures for new plant and equipment."

¹In 1954, all establishments reported expenditures for new plant and equipment. In 1947, very small establishments that accounted for approximately 1.6% of the total value added by manufacture did not report expenditure data and are not represented in the 1947 figures. See 1947 Census of Manufactures, Volume I, Chapter VI for a measure of undercoverage by industry.

²The expenditures figures for 1949-1953 are estimates derived from a sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period.

³The figures presented for establishments under construction are based on reports received from the 1,700 largest manufacturing companies and from a sample of all other companies covered in the Census. The standard errors for the published totals that include the sample estimates are as follows:

Major group code	Standard error (percent)	Major group code	Standard error (percent)
All industries, total.	2	32.....	20
22.....	1	33.....	3
24.....	20	34.....	30
28.....	1	35.....	2

⁴The 1954 figures include data for establishments engaged in the processing and distribution of fluid milk, Industry Group 202, Dairy Products. These establishments were not included in the figures for the Annual Survey years 1949-1953 or earlier Census years. In addition, the 1954 Census and Annual Survey years include data for Logging Camps and Contractors, Industry 2411, which were not included within the scope of the 1947 Census.

⁵Includes privately owned and/or operated establishments classified in Major Industry Group 19, Ordnance and Accessories. Establishments which are government owned and operated are not included.

MANUFACTURES—SUMMARY STATISTICS

Table 2.—MANUFACTURERS' EXPENDITURES FOR NEW PLANT AND EQUIPMENT, BY MAJOR INDUSTRY GROUP: 1954

(In thousands of dollars. For explanation of column captions see Introduction)

Code	Major industry group	All establishments			Establishments in operation			Establishments under construction ¹		
		Total expenditures	New structures and additions to plant	New machinery and equipment	Total expenditures	New structures and additions to plant	New machinery and equipment	Total expenditures	New structures and additions to plant	New machinery and equipment
	All industries, total.....	8,202,142	2,458,962	5,743,180	7,818,155	2,250,222	5,567,933	383,987	208,740	175,247
20	Food and kindred products.....	800,834	234,968	565,866	789,050	229,601	559,449	11,784	5,367	6,417
21	Tobacco manufactures.....	28,018	5,010	23,008	28,018	5,010	23,008	...	...	...
22	Textile mill products.....	230,059	46,504	183,555	225,914	44,481	181,433	4,145	2,023	2,122
23	Apparel and related products....	76,552	22,504	54,048	76,552	22,504	54,048	(D)	(D)	(D)
24	Lumber and wood products.....	235,547	68,949	166,598	217,361	59,023	158,338	18,186	9,926	8,260
25	Furniture and fixtures.....	61,945	22,477	39,468	61,945	22,477	39,468	...	...	...
26	Pulp, paper and products.....	532,723	129,799	402,924	532,723	129,799	402,924	(D)	(D)	(D)
27	Printing and publishing.....	237,402	59,516	177,886	236,897	59,436	177,461	505	80	425
28	Chemicals and products.....	1,020,644	259,897	760,747	926,613	223,603	703,010	94,031	36,294	57,737
29	Petroleum and coal products.....	784,255	497,696	286,559	753,184	466,655	286,529	31,071	31,041	30
30	Rubber products.....	128,575	18,526	110,049	128,431	18,526	109,905	144	...	144
31	Leather and leather products....	28,507	8,053	20,454	28,053	7,962	20,091	454	91	363
32	Stone, clay, and glass products.	312,495	89,890	222,605	300,647	86,525	214,122	11,848	3,365	8,483
33	Primary metal products.....	900,759	265,882	634,877	831,095	234,971	596,124	69,664	30,911	38,753
34	Fabricated metal products.....	444,085	114,215	329,870	432,491	109,250	323,241	11,594	4,965	6,629
35	Machinery, except electrical....	734,289	200,008	534,281	713,808	185,813	527,995	20,481	14,195	6,286
36	Electrical machinery.....	355,090	93,067	247,610	340,677	93,067	247,610	14,413	(D)	(D)
37	Transportation equipment.....	1,003,172	180,804	743,842	924,646	180,804	743,842	78,526	(D)	(D)
38	Instruments and related products	98,523	30,433	68,090	94,008	26,647	67,361	4,515	3,786	729
39	Miscellaneous manufactures ²	178,093	46,023	132,070	176,036	44,062	131,974	2,057	1,961	96

Note: Detailed figures may not add to totals because of independent rounding and for reasons indicated in the disclosure statement.

D Withheld to avoid disclosure of data for individual companies. Where the symbol "D" appears for an industry group under the heading, "Establishments under construction," the withheld data have been excluded from the comparable expenditure figure for all establishments in that industry group. They are, however, included in "All industries" totals for "Establishments under construction" and for "All establishments."

¹The figures presented for establishments under construction are based on reports received from the 1,700 largest manufacturing companies and from a sample of all other companies covered in the Census. The standard errors for the published totals that include the sample estimates are as follows:

Major group code	Standard error (percent) for establishments under construction		
	Total expenditure	New structures and additions to plant	New machinery and equipment
All industries, total..	2	1	4
22.....	1	...	3
24.....	20	26	30
28.....	1	3	...
32.....	20	...	30
33.....	3	5	2
34.....	30	30	30
35.....	2	3	...

²Includes privately owned and/or operated establishments classified in Major Industry Group 19, "Ordnance and Accessories." Establishments which are government owned and operated are not included.

Table 3.—MANUFACTURERS' EXPENDITURES FOR PLANT AND EQUIPMENT, FOR ESTABLISHMENTS IN OPERATION, BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947
(In thousands of dollars. For explanation of column captions see Introduction)

Code	Industries and industry groups	1954 ¹				1947 ¹			
		Expenditures for new plant and equipment			Expenditures for used plant and equipment	Expenditures for new plant and equipment			Expenditures for used plant and equipment
		Total	New construction	New machinery and equipment		Total	New construction	New machinery and equipment	
	All industries, total ²	7,818,155	2,250,222	5,567,933	381,358	5,998,099	2,122,143	3,875,956	623,156
20	Food and kindred products ²	789,050	229,601	559,449	48,668	820,847	276,803	544,044	67,716
201	Meat products.....	91,362	34,217	57,145	4,634	85,036	33,212	51,824	4,678
2011	Meat packing plants.....	64,976	24,900	40,076	1,616	67,567	27,577	39,990	3,273
2013	Prepared meats.....	15,617	5,762	9,855	2,180	11,565	3,761	7,804	1,229
2015	Poultry dressing plants.....	10,768	3,554	7,214	838	5,904	1,874	4,030	176
202	Dairy products ²	163,123	32,616	130,507	8,982	83,495	19,031	64,464	3,874
2021	Creamery butter.....	13,566	2,437	11,128	1,022	16,191	4,537	11,654	545
2022	Natural cheese.....	9,317	2,240	7,076	(³)	12,385	4,316	8,069	382
2023	Concentrated milk.....	9,818	1,525	8,293	(³)	15,111	3,525	11,586	600
2024	Ice cream and ices.....	25,733	4,255	21,478	2,721	36,026	5,386	30,640	2,201
2025	Special dairy products.....	5,776	2,322	3,453	(³)	3,782	1,267	2,515	146
2026	Fluid milk ²	7,496	1,222	6,274	(³)	(²)	(²)	(²)	(²)
2027	Fluid milk and other products ²	91,414	18,608	72,805	4,245	(²)	(²)	(²)	(²)
203	Canned and frozen foods.....	77,100	24,853	52,247	9,188	105,885	36,095	69,790	12,125
2031	Canned seafood.....	2,083	621	1,462	(³)	5,206	1,591	3,615	5,874
2032	Cured fish.....	646	(³)	(³)	(³)	430	188	242	33
2033	Canned fruits and vegetables.....	49,916	16,504	33,412	6,364	77,888	26,277	51,611	5,012
2034	Dehydrated fruits and vegetables.....	3,421	1,462	1,958	(³)	1,750	460	1,290	19
2035	Pickles and sauces.....	7,579	2,385	5,193	(³)	11,445	4,457	6,988	396
2036	Packaged seafood.....	2,813	841	1,971	1,884	...	...	...	...
2037	Frozen fruits and vegetables.....	10,638	2,695	7,943	(³)	9,166	3,122	6,044	791
204	Grain mill products.....	65,348	23,394	41,954	5,299	71,398	30,641	40,757	3,542
2041	Flour and meal.....	15,240	6,278	8,962	708	27,784	12,601	15,183	960
2042	Prepared animal feeds.....	36,812	13,429	23,383	3,551	34,791	14,704	20,087	1,838
2043	Cereal breakfast foods.....	4,403	627	3,776	(³)	3,842	909	2,933	31
2044	Rice milling.....	3,538	1,605	1,932	(³)	3,125	1,700	1,425	681
2045	Flour mixes.....	5,353	1,452	3,901	982	1,856	727	1,129	32
205	Bakery products.....	89,630	17,547	72,083	9,691	105,913	25,350	80,563	5,929
2051	Bread and related products.....	75,725	14,970	60,755	8,934	91,672	20,289	71,383	5,249
2052	Biscuit and crackers.....	13,904	2,576	11,328	757	14,241	5,061	9,180	680
206	Sugar.....	19,123	4,074	15,048	(³)	23,483	4,896	18,587	954
2061	Raw cane sugar.....	2,659	814	1,845	(³)	5,061	1,938	3,123	69
2062	Cane-sugar, refined.....	10,553	2,005	8,548	(³)	5,902	1,321	4,581	690
2063	Beet sugar.....	5,910	1,255	4,655	(³)	12,520	1,637	10,883	195
207	Candy and related products.....	21,272	6,475	14,797	2,003	36,210	9,821	26,389	1,625
2071	Confectionery products.....	13,399	3,251	10,148	1,589	25,602	7,476	18,126	1,422
2072	Chocolate and cocoa products.....	3,636	1,345	2,291	(³)	6,013	1,483	4,530	42
2073	Chewing gum.....	4,235	1,877	2,358	(³)	4,595	862	3,733	161
208	Beverages.....	176,602	63,626	112,976	6,020	218,312	87,237	131,075	28,843
2081	Bottled soft drinks.....	47,731	13,055	34,675	2,576	66,748	17,804	48,944	8,567
2082	Beer and ale.....	114,534	45,996	68,537	1,789	110,892	47,606	63,286	16,232
2083	Malt.....	3,257	1,414	1,843	(³)	6,864	4,072	2,792	67
2084	Wines and brandy.....	2,216	(³)	1,745	(³)	10,905	5,196	5,709	509
2085	Distilled liquor.....	8,863	2,687	6,176	1,147	22,903	12,559	10,344	3,468
209	Miscellaneous food.....	85,487	22,795	62,692	2,744	91,115	30,520	60,595	6,146
2091	Leavening compounds.....	1,604	(³)	1,408	(³)	1,230	289	941	78
2092	Shortening and cooking oils.....	10,971	2,980	7,991	(³)	7,216	3,247	3,969	344
2093	Margarine.....	1,478	(³)	1,075	(³)	1,114	133	981	65
2094	Corn wet milling.....	16,391	3,302	13,088	(³)	20,090	8,610	11,480	128
2095	Flavorings.....	6,642	2,065	4,577	503	7,626	3,067	4,559	1,846
2097	Manufactured ice.....	7,761	3,290	4,471	763	20,345	6,016	14,329	1,237
2098	Macaroni and spaghetti.....	2,469	510	1,959	(³)	3,138	611	2,527	75
2099	Food preparations, n.e.c.....	38,168	10,045	28,123	981	30,356	8,547	21,809	2,373
21	Tobacco manufactures.....	28,018	5,010	23,008	876	35,645	12,919	22,726	758
2111	Cigarettes.....	20,362	3,054	17,308	630	16,546	4,172	12,374	159
2121	Cigars.....	2,884	(³)	2,426	(³)	4,449	1,559	2,890	222
2131	Chewing and smoking tobacco.....	1,205	(³)	992	(³)	2,519	1,047	1,472	230
2141	Tobacco stemming and redrying.....	3,566	1,284	2,282	(³)	12,131	6,141	5,990	147
22	Textile mill products.....	225,914	44,481	181,433	33,187	367,510	104,706	262,804	18,760
221	Woolen and worsted manufacture.....	18,715	4,025	14,690	4,410	50,009	14,921	35,088	2,044
2211	Scouring and combing plants.....	2,391	(³)	1,929	738	3,218	1,186	2,032	36
2212	Yarn mills, wool, except carpet.....	3,302	(³)	2,959	856	6,613	1,691	4,922	337
2213	Woolen and worsted fabrics.....	11,714	3,087	8,626	2,721	39,249	11,831	27,418	1,664
2216	Finishing wool textiles.....	1,307	(³)	1,176	(³)	929	213	716	7
222	Yarn and thread mills.....	30,256	7,601	22,655	3,076	36,647	13,869	22,778	2,723
2222	Yarn throwing mills.....	3,211	516	2,694	588	4,659	1,819	2,840	786
2223	Thread mills.....	8,543	3,610	4,933	(³)	4,208	2,329	1,879	167
2225	Yarn mills, cotton system.....	18,501	3,473	15,028	2,072	27,780	9,721	18,059	1,770

See footnotes at end of table.

MANUFACTURES—SUMMARY STATISTICS

Table 3.—MANUFACTURERS' EXPENDITURES FOR PLANT AND EQUIPMENT, FOR ESTABLISHMENTS IN OPERATION, BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued

(In thousands of dollars. For explanation of column captions see Introduction)

Code	Industries and industry groups	1954 ¹				1947 ¹			
		Expenditures for new plant and equipment			Expenditures for used plant and equipment	Expenditures for new plant and equipment			Expenditures for used plant and equipment
		Total	New construction	New machinery and equipment		Total	New construction	New machinery and equipment	
	Textile mill products—Continued								
223	Broad-woven fabrics.....	68,195	12,024	56,171	14,240	121,653	36,551	85,102	7,284
2233	Cotton broad-woven fabrics.....	55,200	9,397	45,802	9,844	78,772	23,325	55,447	5,665
2234	Synthetic broad-woven fabrics.....	12,995	2,626	10,369	4,396	42,881	13,226	29,655	1,619
2241	Narrow fabric mills.....	4,802	1,176	3,626	513	5,670	1,801	3,869	238
225	Knitting mills.....	39,982	5,632	34,350	7,040	81,765	16,957	64,808	3,218
2251	Full-fashioned hosiery mills.....	7,698	937	6,761	2,610	38,588	7,273	31,315	1,853
2252	Seamless hosiery mills.....	12,986	1,727	11,259	1,882	17,122	3,485	13,637	482
2253	Knit underwear mills.....	9,853	1,011	8,842	1,025	5,727	626	5,101	332
2254	Knit underwear mills.....	2,982	1,011	1,969	556	6,853	1,280	5,573	375
2255	Knit glove mills.....	(3)	(3)	(3)	(3)	651	22	629	20
2256	Knit fabric mills.....	6,214	867	5,347	910	12,731	4,255	8,476	146
2259	Knitting mills, n.e.c.....	(3)	(3)	(3)	(3)	93	16	77	10
2261	Finishing textiles, except wool.....	21,900	4,495	17,405	1,897	29,668	7,600	22,068	1,047
227	Carpet and rugs.....	23,916	5,635	18,281	(3)	21,490	7,087	14,403	1,351
2271	Wool carpets and rugs.....	12,605	3,110	9,495	(3)	11,796	3,029	8,767	1,041
2273	Carpets and rugs, except wool.....	4,957	1,450	3,506	(3)	986	314	672	10
2274	Hard-surface floor coverings.....	6,352	1,072	5,280	(3)	8,708	3,744	4,964	300
228	Hats, except cloth and millinery.....	850	(3)	(3)	(3)	3,446	1,050	2,396	67
2281	Fur-felt hats and hat bodies.....	558	(3)	(3)	(3)	2,211	791	1,420	47
2282	Wool-felt hats and hat bodies.....	(3)	(3)	(3)	(3)	721	99	622	...
2283	Straw hats.....	(3)	(3)	(3)	(3)	151	25	126	...
2284	Hatter's fur.....	(3)	(3)	(3)	(3)	363	135	228	20
229	Miscellaneous textile goods.....	17,296	3,708	13,588	1,570	17,162	4,870	12,292	788
2291	Felt goods, n.e.c.....	1,623	(3)	1,380	(3)	1,258	366	892	192
2292	Lace goods.....	1,941	(3)	1,764	(3)	1,931	664	1,267	9
2293	Paddings and upholstery filling.....	3,485	935	2,549	(3)	1,883	597	1,286	56
2294	Processed textile waste.....	1,513	549	963	(3)	1,046	321	725	23
2295	Coated fabrics, except rubberized.....	4,117	969	3,148	(3)	3,997	909	3,088	165
2298	Cordage and twine.....	2,614	589	2,024	(3)	3,863	858	3,005	290
2299	Textile goods, n.e.c.....	2,000	(3)	1,760	(3)	3,184	1,155	2,029	53
23	Apparel and related products.....	76,552	22,504	54,048	14,774	83,945	22,114	61,831	7,640
231	Men's and boys' suits and coats.....	3,561	864	2,697	(3)	10,961	3,063	7,898	1,105
2311	Men's and boys' suits and coats.....	3,466	855	2,609	(3)	10,747	3,057	7,690	1,098
2312	Suit and coat findings.....	(3)	(3)	(3)	(3)	214	6	208	7
232	Men's and boys' furnishings.....	16,684	4,405	12,279	978	17,866	4,953	12,913	1,409
2321	Men's dress shirts and nightwear.....	6,376	1,478	4,892	(3)	7,786	2,192	5,594	612
2322	Men's and boys' underwear.....	1,168	(3)	1,038	(3)	396	123	273	19
2323	Men's and boys' neckwear.....	(3)	(3)	(3)	(3)	495	195	300	29
2325	Men's and boys' cloth hats.....	(3)	(3)	(3)	(3)	256	62	194	21
2326	Hat and cap materials.....	(3)	(3)	(3)	(3)	70	10	60	3
2327	Separate trousers.....	2,776	666	2,110	(3)	3,401	886	2,515	412
2328	Work shirts.....	(3)	(3)	(3)	(3)	633	156	477	11
2329	Men's and boys' clothing, n.e.c.....	5,473	1,804	3,669	(3)	4,829	1,329	3,500	302
233	Women's and misses' outerwear.....	15,499	3,335	12,164	2,025	18,607	3,141	15,466	1,457
2331	Blouses.....	2,445	577	1,868	(3)	2,150	308	1,842	157
2333	Dresses, unit price.....	5,069	1,202	3,865	698	5,156	710	4,446	605
2334	Dresses, dozen price.....	2,366	(3)	1,988	(3)	4,820	850	3,970	227
2337	Women's suits, coats, and skirts.....	3,621	738	2,880	703	5,005	866	4,139	399
2338	Women's neckwear and scarfs.....	(3)	(3)	(3)	(3)	88	9	79	9
2339	Women's outerwear, n.e.c.....	1,905	(3)	1,505	(3)	1,388	398	990	60
234	Women's undergarments.....	8,432	1,509	6,923	533	10,434	2,581	7,853	459
2341	Women's and children's underwear.....	5,431	836	4,595	(3)	5,701	1,305	4,396	324
2342	Corsets and allied garments.....	3,001	673	2,328	(3)	4,733	1,276	3,457	135
2351	Millinery.....	(3)	(3)	(3)	(3)	1,019	168	851	330
236	Children's outerwear.....	3,844	806	3,038	(3)	3,433	866	2,567	245
2361	Children's dresses.....	1,451	(3)	1,087	(3)	1,382	161	1,221	152
2363	Children's coats.....	574	(3)	(3)	(3)	863	321	542	19
2369	Children's outerwear, n.e.c.....	1,818	(3)	1,495	(3)	1,188	384	804	74
2371	Fur goods.....	(3)	(3)	(3)	(3)	559	104	455	176
238	Miscellaneous apparel.....	4,091	1,422	2,669	(3)	4,241	1,181	3,060	230
2381	Fabric dress gloves.....	(3)	(3)	(3)	(3)	646	292	354	12
2382	Fabric work gloves.....	(3)	(3)	(3)	(3)	1,013	425	588	30
2383	Suspenders and garters.....	(3)	(3)	(3)	(3)	42	3	39	1
2384	Robes and dressing gowns.....	(3)	(3)	(3)	(3)	708	83	625	89
2385	Waterproof outer garments.....	844	(3)	(3)	(3)	533	56	477	15
2386	Leather and sheep-lined clothing.....	(3)	(3)	(3)	(3)	276	49	227	6
2387	Belts.....	658	(3)	521	(3)	714	198	516	70
2388	Handkerchiefs.....	(3)	(3)	(3)	(3)	166	21	145	3
2389	Apparel, n.e.c.....	(3)	(3)	(3)	(3)	143	54	89	4

See footnotes at end of table.

EXPENDITURES FOR PLANT AND EQUIPMENT

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Table 3.—MANUFACTURERS' EXPENDITURES FOR PLANT AND EQUIPMENT, FOR ESTABLISHMENTS IN OPERATION, BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued

(In thousands of dollars. For explanation of column captions see Introduction)

Code	Industries and industry groups	1954 ¹				1947 ¹			
		Expenditures for new plant and equipment			Expenditures for used plant and equipment	Expenditures for new plant and equipment			Expenditures for used plant and equipment
		Total	New construction	New machinery and equipment		Total	New construction	New machinery and equipment	
	Apparel and related products—Continued								
239	Fabricated textiles, n.e.c.....	23,586	10,026	13,560	10,228	16,825	6,057	10,768	2,229
2391	Curtains and draperies.....	1,208	(3)	735	(3)	748	60	688	87
2392	Housefurnishings, n.e.c.....	4,363	1,856	2,507	(3)	5,001	1,791	3,210	321
2393	Textile bags.....	3,941	1,543	2,398	(3)	3,918	1,851	2,067	900
2394	Canvas products.....	1,285	(3)	961	(3)	1,399	507	892	298
2395	Tucking, pleating, and stitching.....	644	(3)	524	(3)	298	26	272	13
2396	Trimings and art goods.....	7,691	4,595	3,096	8,641	1,905	707	1,198	114
2397	Schiffli-machine embroideries.....	1,016	(3)	874	(3)	826	138	688	163
2398	Embroideries, except Schiffli.....	716	(3)	(3)	(3)	349	53	296	24
2399	Textile products, n.e.c.....	2,719	726	1,993	(3)	2,381	924	1,457	309
24	Lumber and wood products ²	217,361	59,023	158,338	19,424	171,574	56,048	115,526	31,870
2411	Logging camps and contractors ²	48,632	5,201	43,431	3,771	(2)	(2)	(2)	(2)
242	Lumber and basic products.....	120,128	39,307	80,821	10,519	115,930	36,835	79,095	24,333
2421	Sawmills and planing mills.....	115,533	37,853	77,679	9,853	110,617	35,298	75,319	22,871
2422	Veneer mills.....	3,146	1,091	2,055	(3)	3,702	1,242	2,460	234
2423	Shingle mills.....	984	(3)	711	(3)	...	...	...	...
2424	Cooperage stock mills.....	(3)	(3)	(3)	(3)	1,376	225	1,151	1,201
2425	Excelsior mills.....	(3)	(3)	(3)	(3)	235	70	165	27
243	Millwork and related products.....	28,613	9,077	19,536	2,950	26,998	9,893	17,105	3,854
2431	Millwork plants.....	13,737	5,133	8,604	1,301	13,499	5,143	8,356	2,125
2432	Plywood plants.....	11,193	2,294	8,899	1,247	10,057	3,394	6,663	1,357
2433	Prefabricated wood products.....	3,681	1,648	2,033	(3)	3,442	1,356	2,086	372
244	Wooden containers.....	8,124	2,257	5,867	941	11,596	3,675	7,921	1,218
2441	Fruit and vegetable baskets.....	674	(3)	(3)	(3)	872	156	716	114
2442	Rattan and willow ware.....	(3)	(3)	(3)	(3)	74	25	49	4
2443	Cigar boxes.....	(3)	(3)	(3)	...	144	46	98	...
2444	Wooden boxes.....	6,109	1,529	4,580	862	8,738	2,748	5,990	777
2445	Cooperage.....	973	(3)	583	(3)	1,768	700	1,068	323
249	Miscellaneous wood products.....	11,863	3,181	8,682	1,243	17,050	5,645	11,405	2,465
2491	Wood preserving.....	4,700	1,470	3,230	(3)	6,243	1,673	4,570	780
2492	Lasts and related products.....	(3)	(3)	(3)	(3)	253	7	246	2
2493	Mirror and picture frames.....	(3)	(3)	(3)	(3)	296	57	239	96
2499	Wood products, n.e.c.....	6,605	1,598	5,007	898	10,258	3,908	6,350	1,587
25	Furniture and fixtures.....	61,945	22,477	39,468	5,186	77,441	26,247	51,194	4,705
251	Household furniture.....	40,284	14,866	25,418	2,530	56,900	17,911	38,989	2,880
2511	Wood furniture, not upholstered.....	17,161	5,363	11,798	1,231	32,257	9,216	23,041	1,522
2512	Upholstered household furniture.....	6,934	3,049	3,885	(3)	9,833	4,967	4,866	807
2514	Metal household furniture.....	8,720	2,938	5,782	(3)	7,194	1,809	5,385	104
2515	Mattresses and bedsprings.....	5,306	1,469	3,837	(3)	7,434	1,866	5,568	447
2519	Household furniture, n.e.c.....	2,161	2,045	(3)	(3)	182	53	129	...
252	Office furniture.....	5,350	1,907	3,443	(3)	5,739	2,573	3,166	438
2521	Wood office furniture.....	615	(3)	(3)	(3)	1,544	691	853	225
2522	Metal office furniture.....	4,732	1,612	3,122	(3)	4,195	1,882	2,313	213
253	Public and professional furniture.....	4,732	1,656	3,076	(3)	2,443	890	1,553	48
2531	Public-building furniture.....	3,781	1,315	2,465	(3)	1,379	355	1,024	36
2532	Professional furniture.....	951	(3)	611	(3)	1,064	535	529	12
2541	Partitions and fixtures.....	7,031	2,872	4,159	621	5,403	2,550	2,853	482
256	Screens, shades, and blinds.....	3,853	976	2,877	1,466	6,149	2,024	4,125	632
2561	Window and door screens.....	1,156	(3)	957	(3)	2,261	689	1,572	452
2562	Window shades.....	805	(3)	625	1,320	2,116	820	1,296	43
2563	Venetian blinds.....	1,892	597	1,295	(3)	1,772	515	1,257	137
259	Furniture and fixtures, n.e.c.....	694	(3)	(3)	(3)	807	299	508	225
2591	Restaurant furniture.....	559	(3)	(3)	(3)	653	259	394	148
2599	Furniture and fixtures, n.e.c.....	(3)	(3)	(3)	(3)	154	40	114	77
26	Pulp, paper and products.....	532,723	129,799	402,924	11,429	406,779	117,231	289,548	17,362
261	Pulp, paper and board.....	370,539	83,715	286,824	3,126	290,526	77,753	212,773	8,540
2611	Pulp mills.....	148,475	33,072	115,403	(3)	85,507	22,847	62,660	3,546
2612	Paper and paper board mills.....	213,050	49,139	163,911	2,273	205,019	54,906	150,113	4,994
2613	Building paper and board mills.....	9,013	1,503	7,510	756	...	...	...	...
2641	Paper coating and glazing.....	15,240	2,297	12,943	(3)	10,072	3,649	6,423	2,027
2651	Envelopes.....	6,942	1,630	5,312	1,206	5,338	1,447	3,891	613
2661	Paper bags.....	18,901	6,654	12,247	848	9,189	2,755	6,434	337
267	Paperboard containers.....	63,899	18,311	45,588	3,638	52,014	18,674	33,340	3,717
2671	Paperboard boxes.....	60,490	17,751	42,739	3,432	47,274	16,745	30,529	3,646
2674	Fiber cans, tubes, drums, etc.....	3,408	559	2,849	(3)	4,740	1,929	2,811	71
269	Pulp, paper and products, n.e.c.....	57,201	17,191	40,010	2,160	39,640	12,953	26,687	2,128
2691	Die-cut paper and board.....	6,424	2,405	4,019	(3)	2,052	346	1,706	117
2693	Wallpaper.....	526	(3)	(3)	(3)	5,994	3,618	2,376	24
2694	Pulp goods, pressed and molded.....	3,215	(3)	2,962	(3)	1,046	380	666	24
2699	Paper and board products, n.e.c.....	47,034	14,350	32,684	1,378	30,548	8,609	21,939	1,963

See footnotes at end of table.

MANUFACTURES—SUMMARY STATISTICS

Table 3.—MANUFACTURERS' EXPENDITURES FOR PLANT AND EQUIPMENT, FOR ESTABLISHMENTS IN OPERATION, BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued

(In thousands of dollars. For explanation of column captions see Introduction)

Code	Industries and industry groups	1954 ¹				1947 ¹			
		Expenditures for new plant and equipment			Expenditures for used plant and equipment	Expenditures for new plant and equipment			Expenditures for used plant and equipment
		Total	New construction	New machinery and equipment		Total	New construction	New machinery and equipment	
27	Printing and publishing.....	236,897	59,436	177,461	19,146	226,368	82,143	144,225	16,157
2711	Newspapers.....	75,536	23,132	52,404	8,875	81,583	36,516	45,067	6,948
2721	Periodicals.....	14,542	4,140	10,402	(³)	34,308	17,024	17,284	1,342
273	Books.....	14,801	6,988	7,813	(³)	11,578	5,604	5,974	1,786
2731	Books; publishing and printing.....	7,558	4,906	2,652	(³)	7,310	3,999	3,311	1,601
2732	Book printing.....	7,243	2,080	5,161	(³)	4,268	1,605	2,663	185
2741	Miscellaneous publishing.....	3,270	905	2,365	(³)	1,262	378	884	52
2751	Commercial printing.....	65,822	11,278	54,544	4,923	60,677	14,098	46,579	3,673
2761	Lithographing.....	34,854	5,160	29,694	2,843	17,387	3,990	13,397	1,206
2771	Greeting cards.....	8,809	6,184	2,625	(³)	2,512	498	2,014	47
278	Bookbinding and related industries.....	7,458	(³)	7,037	(³)	7,485	1,701	5,784	381
2781	Bookbinding.....	3,666	(³)	3,495	(³)	3,549	408	3,141	50
2782	Blankbooks and paper ruling.....	1,802	(³)	1,747	(³)	2,145	1,132	1,013	198
2783	Loose-leaf binders and devices.....	1,285	(³)	1,196	(³)	1,168	122	1,046	102
2789	Miscellaneous bookbinding work.....	703	(³)	599	(³)	623	39	584	31
279	Printing trades service.....	11,802	(³)	10,577	(³)	9,576	2,334	7,242	722
2791	Typesetting.....	4,267	(³)	3,858	(³)	1,982	144	1,838	195
2792	Engraving and plate printing.....	1,702	(³)	1,367	(³)	544	117	427	27
2793	Photoengraving.....	3,986	(³)	3,620	(³)	4,640	1,743	2,897	408
2794	Electrotyping and stereotyping.....	1,845	(³)	1,732	(³)	2,410	330	2,080	92
28	Chemicals and products.....	926,613	223,603	703,010	24,037	804,958	279,739	525,219	82,309
281	Inorganic chemicals.....	219,273	45,685	173,588	6,470	121,728	37,961	83,767	5,387
2811	Sulfuric acid.....	10,803	2,392	8,411	(³)	...	...	...	...
2811	Alkalies and chlorine.....	34,728	7,521	27,207	1,734	55,404	13,506	42,898	420
2819	Inorganic chemicals, n.e.c.....	173,741	35,771	137,970	4,705	65,324	24,455	40,869	4,967
282	Organic chemicals.....	430,665	94,419	336,246	11,261	391,394	122,976	268,418	58,130
2821	Cyclic (coal tar) crudes.....	2,199	1,039	1,160	(³)	1,981	390	1,591	17
2822	Intermediates and organic colors.....	72,067	13,533	58,534	(³)	...	...	...	...
2823	Plastics materials.....	108,058	19,941	88,117	2,746	58,386	20,118	38,268	6,765
2824	Synthetic rubber.....	13,760	1,699	12,061	656	4,121	1,964	2,157	466
2825	Synthetic fiber.....	62,751	8,323	54,428	(³)	62,179	16,374	45,805	1,395
2826	Explosives.....	17,279	11,418	5,861	2,835	6,050	1,962	4,088	286
2829	Organic chemicals, n.e.c.....	154,550	38,465	116,085	4,551	258,677	82,168	176,509	49,201
283	Drugs and medicines.....	55,761	18,823	36,938	1,101	74,955	41,051	33,904	1,890
2831	Biological products.....	2,510	1,259	1,251	(³)	1,360	687	673	5
2832	Botanical products.....	...	...	...	(³)	650	154	496	...
2833	Medicinal chemicals (including Botanical).....	12,948	3,000	9,948	(³)	13,540	5,584	7,956	355
2834	Pharmaceutical preparations.....	40,303	14,564	25,739	752	59,405	34,626	24,779	1,530
284	Soap and related products.....	27,648	8,235	19,413	(³)	35,125	9,977	25,148	1,683
2841	Soap and glycerin.....	13,358	3,902	9,456	(³)	24,080	5,263	18,817	569
2842	Cleaning and polishing preparations.....	12,711	3,905	8,806	(³)	9,655	4,240	5,415	995
2843	Sulfonated oils and assistants.....	1,578	(³)	1,151	(³)	1,390	474	916	119
285	Paints and allied products.....	30,092	10,175	19,917	784	53,524	20,072	33,452	1,757
2851	Paints and varnishes.....	21,268	8,612	12,656	724	33,884	15,189	18,695	1,604
2852	Inorganic color pigments.....	8,358	1,394	6,964	(³)	19,329	4,809	14,520	85
2853	Whiting and fillers.....	(³)	(³)	(³)	(³)	311	74	237	68
286	Gum and wood chemicals.....	7,742	3,260	4,482	(³)	3,700	763	2,937	491
2861	Hardwood distillation.....	(³)	(³)	(³)	(³)	608	90	518	22
2862	Softwood distillation.....	6,662	3,010	3,652	(³)	2,488	581	1,907	43
2863	Gum naval stores.....	(³)	(³)	(³)	(³)	336	42	294	371
2865	Tanning and dyeing materials.....	(³)	(³)	(³)	(³)	268	50	218	55
287	Fertilizers.....	46,587	15,325	31,262	708	17,133	6,945	10,188	576
2871	Fertilizers.....	33,762	9,854	23,908	574	10,823	3,749	7,074	321
2872	Fertilizers, mixing only.....	12,825	5,471	7,354	(³)	6,310	3,196	3,114	255
288	Vegetable and animal oils.....	41,442	12,431	29,011	1,478	51,816	19,979	31,837	1,932
2881	Cottonseed oil mills.....	11,680	3,954	7,726	(³)	9,804	2,678	7,126	454
2882	Linseed oil mills.....	1,311	(³)	956	(³)	5,086	2,689	2,397	42
2883	Soybean oil mills.....	8,479	3,685	4,794	(³)	15,887	8,722	7,165	262
2884	Vegetable oil mills, n.e.c.....	2,470	439	2,031	(³)	5,252	1,829	3,423	460
2886	Grease and tallow.....	8,138	1,671	6,467	573	12,611	3,376	9,235	555
2887	Fatty acids.....	4,819	1,353	3,466	(³)	1,427	345	1,082	58
2889	Animal oils, n.e.c.....	4,544	973	3,571	(³)	1,749	340	1,409	101
289	Chemical products.....	67,398	15,245	52,153	1,856	55,583	20,015	35,568	10,463
2891	Printing ink.....	6,336	1,385	4,951	(³)	2,973	970	2,003	332
2892	Essential oils.....	(³)	(³)	(³)	(³)	593	233	360	8
2893	Toilet preparations.....	7,537	2,141	5,396	(³)	9,192	3,561	5,631	3,977
2894	Glue and gelatin.....	2,945	583	2,362	(³)	3,249	967	2,282	28
2895	Carbon black.....	10,597	2,760	7,837	695	7,023	4,054	2,969	601
2896	Compressed and liquefied gases.....	19,840	2,431	17,409	(³)	9,709	2,024	7,685	3,815
2897	Insecticides and fungicides.....	2,988	563	2,425	(³)	1,168	2,270	1,168	177
2898	Salt.....	4,328	1,248	3,080	(³)	4,181	1,394	2,787	29
2899	Chemical products, n.e.c.....	12,586	4,081	8,505	(³)	15,225	5,644	9,581	1,496

See footnotes at end of table.

EXPENDITURES FOR PLANT AND EQUIPMENT

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Table 3.—MANUFACTURERS' EXPENDITURES FOR PLANT AND EQUIPMENT, FOR ESTABLISHMENTS IN OPERATION, BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued

(In thousands of dollars. For explanation of column captions see Introduction)

Code	Industries and industry groups	1954 ¹				1947 ¹			
		Expenditures for new plant and equipment			Expenditures for used plant and equipment	Expenditures for new plant and equipment			Expenditures for used plant and equipment
		Total	New construction	New machinery and equipment		Total	New construction	New machinery and equipment	
29	Petroleum and coal products.....	753,184	466,655	286,529	5,996	399,754	317,440	82,314	39,767
2911	Petroleum refining.....	656,033	421,187	234,846	2,838	316,370	271,939	44,431	34,105
293	Coke and byproducts.....	79,301	39,977	39,324	(3)	64,263	39,722	24,541	5,049
2931	Beehive coke ovens.....	(3)	(3)	(3)	(3)	376	155	221	13
2932	Byproduct coke ovens.....	79,277	39,956	39,321	(3)	63,887	39,567	24,320	5,036
295	Paving and roofing materials.....	13,155	3,835	9,320	2,887	15,134	4,199	10,935	311
2951	Paving mixtures and blocks.....	5,367	1,571	3,796	759	2,924	715	2,209	168
2952	Roofing felts and coatings.....	7,787	2,263	5,524	2,128	12,210	3,484	8,726	143
299	Petroleum and coal products, n.e.c.....	4,694	1,655	3,039	(3)	3,987	1,580	2,407	302
2992	Lubricants, n.e.c.....	4,314	1,601	2,713	(3)	3,168	1,308	1,860	250
2999	Petroleum and coal products, n.e.c.....	(3)	(3)	(3)	(3)	819	272	547	52
30	Rubber products.....	128,431	18,526	109,905	3,862	109,783	30,893	78,890	7,301
3011	Tires and inner tubes.....	67,430	6,235	61,195	1,541	54,883	14,313	40,570	4,683
3021	Rubber footwear.....	4,217	575	3,642	(3)	4,982	648	4,334	169
3031	Reclaimed rubber.....	2,834	619	2,215	(3)	2,864	1,072	1,792	22
3099	Rubber industries, n.e.c.....	53,949	11,096	42,853	2,228	47,054	14,860	32,194	2,427
31	Leather and leather goods.....	28,053	7,962	20,091	1,269	31,301	8,064	23,237	3,019
3111	Leather tanning and finishing.....	7,123	2,052	5,071	(3)	10,565	3,376	7,189	388
3121	Industrial leather belting.....	1,955	509	1,446	(3)	1,320	207	1,113	229
3131	Footwear cut stock.....	3,063	1,312	1,751	(3)	1,921	492	1,429	204
314	Footwear, except rubber.....	12,084	2,904	9,181	698	13,344	2,984	10,360	1,795
3141	Footwear, except rubber.....	11,420	2,786	8,636	(3)	12,587	2,906	9,681	1,696
3142	House slippers.....	663	(3)	(3)	(NA)	757	78	679	99
315	Leather gloves.....	(3)	(3)	(3)	(3)	528	121	407	20
3151	Leather dress gloves.....	(3)	(3)	(3)	(3)	302	41	261	10
3152	Leather work gloves.....	(3)	(3)	(3)	(3)	226	80	146	10
3161	Luggage.....	1,868	879	989	(3)	1,842	610	1,232	242
317	Purses and small leather goods.....	1,495	(3)	1,240	(3)	1,113	87	1,026	51
3171	Handbags and purses.....	972	(3)	803	(3)	799	47	752	46
3172	Small leather goods.....	522	(3)	(3)	(3)	314	40	274	5
319	Miscellaneous leather goods.....	(3)	(3)	(3)	(3)	668	187	481	90
3192	Saddlery, harness, and whips.....	(3)	(3)	(3)	...	194	103	91	47
3199	Leather goods, n.e.c.....	(3)	(3)	(3)	(3)	474	84	390	43
32	Stone, clay, and glass products.....	300,647	86,525	214,122	12,392	285,066	104,378	180,688	11,391
3211	Flat glass.....	30,964	8,233	22,731	(3)	11,618	5,302	6,316	27
322	Pressed and blown glassware.....	37,417	11,953	25,464	1,177	49,096	22,105	26,991	1,368
3221	Glass containers.....	26,542	9,907	16,634	1,111	32,775	14,767	18,008	1,157
3229	Pressed and blown glassware, n.e.c.....	10,875	2,045	8,830	(3)	16,321	7,338	8,983	211
3231	Products of purchased glass.....	5,590	1,456	4,134	(3)	6,398	2,318	4,080	322
3241	Cement, hydraulic.....	73,015	20,492	52,523	1,302	42,488	9,229	33,259	1,449
325	Structural clay products.....	31,561	13,030	18,531	4,028	27,632	11,961	15,671	1,892
3251	Brick and hollow tile.....	16,233	6,293	9,940	579	13,266	6,039	7,227	772
3253	Floor and wall tile.....	2,376	2,376	2,203	(3)	2,277	1,014	1,263	24
3254	Sewer pipe.....	3,118	866	2,252	(3)	4,183	1,945	2,238	94
3255	Clay refractories.....	5,702	2,598	3,104	3,067	5,875	2,058	3,817	328
3259	Structural clay products, n.e.c.....	1,928	896	1,032	(3)	2,031	905	1,126	674
326	Pottery and related products.....	10,634	3,978	6,656	(3)	15,940	7,218	8,722	620
3261	Vitreous plumbing fixtures.....	1,061	(3)	666	(3)	2,850	1,293	1,557	32
3262	Vitreous-china food utensils.....	1,333	(3)	1,275	(3)	2,692	1,341	1,351	162
3263	Earthenware food utensils.....	528	(3)	(3)	(3)	4,784	2,212	2,572	300
3264	Porcelain electrical supplies.....	5,357	2,430	2,927	(3)	2,904	927	1,977	69
3265	China decorating for the trade.....	(3)	(3)	(3)	...	82	16	66	1
3269	Pottery products, n.e.c.....	2,321	1,020	1,301	(3)	2,628	1,429	1,199	56
327	Concrete and plaster products.....	61,680	14,441	47,239	2,875	84,014	28,945	55,069	3,601
3271	Concrete products.....	40,548	8,916	31,632	2,258	35,692	9,845	25,847	2,538
3272	Gypsum products.....	10,227	3,160	7,067	(3)	24,386	9,504	14,882	424
3274	Lime.....	4,835	1,441	3,394	(3)	10,745	4,499	6,246	530
3275	Mineral wool.....	6,068	922	5,146	(3)	13,191	5,097	8,094	109
3281	Cut-stone and stone products.....	4,296	892	3,404	(3)	2,274	652	1,622	126
329	Nonmetallic mineral products, n.e.c.....	45,488	12,048	33,440	2,090	45,606	16,648	28,958	1,986
3291	Abrasive products.....	9,857	2,011	7,846	(3)	11,820	6,089	5,731	710
3292	Asbestos products.....	14,935	3,648	11,287	753	12,960	3,913	9,047	473
3293	Gaskets and asbestos insulations.....	4,954	1,075	3,878	(3)	3,966	1,210	2,756	266
3294	Minerals: ground or treated.....	10,226	3,428	6,798	548	8,780	2,821	5,959	338
3295	Nonclay refractories.....	3,739	1,584	2,155	(3)	5,772	1,573	4,199	91
3297	Statuary and art goods.....	(3)	(3)	(3)	...	138	64	74	30
3298	Nonmetallic mineral products, n.e.c.....	1,574	(3)	1,347	(3)	2,170	978	1,192	78

See footnotes at end of table.

MANUFACTURES—SUMMARY STATISTICS

Table 3.—MANUFACTURERS' EXPENDITURES FOR PLANT AND EQUIPMENT, FOR ESTABLISHMENTS IN OPERATION, BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued

(In thousands of dollars. For explanation of column captions see Introduction)

Code	Industries and industry groups	1954 ¹				1947 ¹			
		Expenditures for new plant and equipment			Expenditures for used plant and equipment	Expenditures for new plant and equipment			Expenditures for used plant and equipment
		Total	New construction	New machinery and equipment		Total	New construction	New machinery and equipment	
33	Primary metal industries.....	831,095	234,971	596,124	24,473	592,177	212,687	379,490	77,676
331	Blast furnaces and steel mills.....	523,543	159,319	364,224	10,855	368,365	149,826	218,539	43,718
3311	Steel works and rolling mills.....	501,230	153,082	348,147	10,620	363,070	148,255	214,815	42,998
3312									
3313	Electrometallurgical products.....	22,313	6,236	16,077	(³)	5,295	1,571	3,724	720
332	Iron and steel foundries.....	76,332	17,862	58,470	2,710	75,745	20,664	55,081	6,044
3321	Gray-iron foundries.....	49,939	12,418	37,521	1,701	54,097	16,217	37,880	2,437
3322	Malleable-iron foundries.....	9,966	1,684	8,282	(³)	8,184	1,573	6,611	152
3323	Steel foundries.....	16,426	3,759	12,667	529	13,464	2,874	10,590	3,455
333	Primary nonferrous metals.....	58,107	14,768	43,339	(³)	17,306	6,528	10,778	4,177
3331	Primary copper.....	4,234	1,803	2,431	(³)	4,176	1,388	2,788	1
3332	Primary lead.....	1,404	(³)	1,129	(³)	2,649	1,046	1,603	8
3333	Primary zinc.....	5,276	2,621	2,654	(³)	6,739	2,172	4,567	372
3334	Primary aluminum.....	26,073	(D)	(D)	(³)	2,791	1,551	1,240	3,120
3339	Primary nonferrous metals, n.e.c.....	21,119	(D)	(D)	(³)	951	371	580	676
3341	Secondary nonferrous metals.....	9,553	3,406	6,147	(³)	7,225	2,625	4,600	1,018
335	Nonferrous rolling and drawing.....	63,188	14,386	48,802	4,779	33,828	7,502	26,326	5,458
3351	Copper rolling and drawing.....	30,540	7,320	23,220	1,155	21,617	5,466	16,151	1,213
3352	Aluminum rolling and drawing.....	21,402	4,271	17,131	3,544	9,897	1,481	8,416	4,138
3359	Rolling and drawing, n.e.c.....	11,246	2,795	8,451	(³)	2,314	555	1,759	107
3361	Nonferrous foundries.....	24,779	7,300	17,479	1,313	19,017	6,170	12,847	2,124
339	Primary metal industries, n.e.c.....	75,590	17,927	57,663	4,233	70,691	19,372	51,319	15,137
3391	Iron and steel forgings.....	15,862	4,390	11,472	1,878	9,230	1,982	7,248	4,083
3392	Wire drawing.....	35,729	8,105	27,624	1,505	43,893	10,377	33,516	9,032
3393	Welded and heavy-riveted pipe.....	9,134	1,660	7,474	(³)	5,760	2,491	3,269	217
3399	Primary metal industries, n.e.c.....	14,864	3,771	11,093	677	11,808	4,522	7,286	1,805
34	Fabricated metal products.....	432,491	109,250	323,241	35,726	304,822	92,119	212,703	27,533
3411	Tin cans and other tinware.....	50,093	6,500	43,593	4,158	20,183	3,656	16,527	662
342	Cutlery, tools, and hardware.....	60,796	12,752	48,044	9,175	39,288	9,897	29,391	3,873
3421	Cutlery.....	2,393	552	1,841	2,478	5,774	1,334	4,440	139
3422	Edge tools.....	1,611	697	914	(³)	2,567	729	1,838	137
3423	Hand tools, n.e.c.....	7,047	2,367	4,680	636	8,653	2,022	6,631	1,575
3424	Files.....	725	(³)	667	...	1,113	622	491	81
3425	Hand saws and saw blades.....	1,582	(³)	1,371	(³)	4,033	1,735	2,298	460
3429	Hardware, n.e.c.....	47,436	8,865	38,571	5,710	17,148	3,455	13,693	1,481
343	Heating and plumbing equipment.....	35,949	8,743	27,206	3,458	57,824	21,207	36,617	3,394
3431	Plumbing fixtures and fittings.....	12,286	3,989	8,297	(³)	9,839	2,757	7,082	358
3432	Oil burners.....	...	...	...	...	1,987	599	1,388	148
3439	Heating and cooking equipment, n.e.c.....	23,663	4,754	18,909	3,214	45,998	17,851	28,147	2,888
344	Structural metal products.....	102,197	38,598	63,599	4,839	63,583	24,491	39,092	7,164
3441	Structural and ornamental work.....	27,768	16,453	11,315	1,889	21,850	11,205	10,645	2,211
3442	Metal doors, sash, and trim.....	32,097	8,943	23,154	590	6,668	2,363	4,305	261
3443	Boiler shop products.....	23,562	6,483	17,078	1,507	21,908	6,761	15,147	3,341
3444	Sheet-metal work.....	18,770	6,718	12,052	853	13,157	4,162	8,995	1,351
346	Metal stamping and coating.....	55,562	12,179	43,383	5,053	56,286	14,923	41,363	4,628
3461	Vitreous-enameled products.....	1,222	(³)	894	(³)	2,977	1,150	1,827	67
3463	Metal stampings.....	38,068	7,517	30,551	3,913	44,846	11,314	33,532	3,880
3465	Enameling and lacquering.....	1,371	(³)	882	(³)	965	460	505	55
3466	Galvanizing.....	1,193	(³)	911	(³)	681	257	424	61
3467	Engraving on metal.....	845	(³)	563	(³)	680	102	578	29
3468	Plating and polishing.....	12,862	3,280	9,582	706	6,137	1,640	4,497	536
3471	Lighting fixtures.....	14,217	2,590	11,627	768	9,797	2,467	7,330	1,506
348	Fabricated wire products.....	18,112	5,722	12,390	1,918	16,426	4,709	11,717	1,054
3481	Nails and spikes.....	610	(³)	(³)	(³)	886	166	720	42
3489	Wirework, n.e.c.....	17,502	5,543	11,959	1,896	15,540	4,543	10,997	1,012
349	Metal products, n.e.c.....	95,561	22,162	73,399	6,357	41,435	10,769	30,666	5,252
3491	Metal barrels, drums, and pails.....	5,860	1,331	4,529	(³)	3,607	970	2,637	167
3492	Safes and vaults.....	714	(³)	518	(³)	580	102	478	57
3493	Steel springs.....	36,127	8,299	27,827	1,996	2,285	1,020	1,265	227
3494	Bolts, nuts, washers, and rivets.....	26,090	6,009	20,081	1,162	18,263	4,762	13,501	2,054
3495	Screw machine products.....	11,886	2,426	9,460	2,646	10,800	2,866	7,934	2,288
3496	Collapsible tubes.....	1,369	1,060	1,060	(³)	1,477	160	1,317	149
3497	Metal foil.....	5,423	1,003	4,419	(³)	2,395	446	1,949	61
3499	Fabricated metal products, n.e.c.....	8,088	2,583	5,505	(³)	2,028	443	1,585	249
35	Machinery, except electrical.....	713,808	185,813	527,995	41,261	517,589	167,396	350,193	80,671
351	Engines and turbines.....	40,052	10,283	29,769	779	36,580	14,796	21,784	8,410
3511	Steam engines and turbines.....	18,411	3,301	15,110	(³)	12,879	8,060	4,819	413
3519	Internal combustion engines.....	21,640	6,981	14,659	590	23,701	6,736	16,965	7,997

See footnotes at end of table.

EXPENDITURES FOR PLANT AND EQUIPMENT

206-9

Table 3.—MANUFACTURERS' EXPENDITURES FOR PLANT AND EQUIPMENT, FOR ESTABLISHMENTS IN OPERATION, BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued

(In thousands of dollars. For explanation of column captions see Introduction)

Code	Industries and industry groups	1954 ¹				1947 ¹			
		Expenditures for new plant and equipment			Expenditures for used plant and equipment	Expenditures for new plant and equipment			Expenditures for used plant and equipment
		Total	New construction	New machinery and equipment		Total	New construction	New machinery and equipment	
	Machinery, except electrical—Continued								
352	Tractors and farm machinery.....	76,176	13,320	62,856	2,614	106,078	39,528	66,550	12,883
3521	Tractors.....	51,528	6,944	44,583	1,594	64,017	22,915	41,102	6,425
3522	Farm machinery (except tractors).....	24,648	6,374	18,273	1,020	42,061	16,613	25,448	6,458
353	Construction and mining machinery.....	43,481	12,301	31,180	1,795	33,474	12,097	21,377	6,637
3531	Construction and mining machinery.....	25,292	7,991	17,301	969	22,179	8,148	14,031	5,346
3532	Oil-field machinery and tools.....	18,188	4,309	13,879	826	11,295	3,949	7,346	1,291
354	Metalworking machinery.....	141,823	39,371	102,452	11,279	51,342	13,640	37,702	10,102
3541	Machine tools.....	37,683	11,151	26,532	1,980	13,836	3,524	10,312	3,308
3542	Metalworking machinery.....	20,941	5,527	15,414	2,739	11,621	3,892	7,729	3,052
3544	Special dies and tools.....	66,600	18,845	47,755	5,726	25,885	6,224	19,661	3,742
3545	Metalworking machinery attachments.....	16,598	3,847	12,751	834				
355	Special-industry machinery, n.e.c.....	45,722	10,771	34,951	6,297	61,313	20,480	40,833	7,800
3551	Food-products machinery.....	7,571	1,559	6,011	3,601	12,323	6,112	6,211	3,619
3552	Textile machinery.....	8,528	1,492	7,036	879	13,692	4,078	9,614	896
3553	Woodworking machinery.....	4,329	1,038	3,290	(3)	4,403	1,427	2,976	574
3554	Paper-industries machinery.....	4,916	1,218	3,698	(3)	6,114	2,260	3,854	282
3555	Printing-trades machinery.....	6,634	1,272	5,362	(3)	4,860	882	3,978	413
3559	Special-industry machinery, n.e.c.....	13,742	4,188	9,554	1,074	19,921	5,721	14,200	2,016
356	General industrial machinery.....	81,903	22,689	59,214	5,966	56,556	19,463	37,093	11,438
3561	Pumps and compressors.....	18,015	3,967	14,047	923	14,631	6,217	8,414	6,031
3562	Elevators and escalators.....	1,429	(3)	1,233	(3)	1,855	477	1,378	227
3563	Conveyors.....	10,519	3,854	6,665	1,020	5,703	2,180	3,523	444
3564	Blowers and fans.....	5,873	1,637	4,236	(3)	3,551	1,215	2,336	201
3565	Industrial trucks and tractors.....	7,088	3,543	3,545	1,043	5,463	2,722	2,741	386
3566	Power-transmission equipment.....	14,964	3,059	11,905	2,034	14,620	2,092	12,528	1,633
3567	Industrial furnaces and ovens.....	1,902	927	975	(3)	1,330	466	864	63
3568	Mechanical stokers.....	(3)	(3)	(3)	(3)	1,313	660	653	289
3569	General industrial machinery, n.e.c.....	21,883	5,458	16,425	(3)	8,090	3,434	4,656	2,164
357	Office and store machines.....	42,067	8,417	33,650	(3)	37,104	10,404	26,700	5,293
3571	Computing and related machines.....	31,571	6,363	25,208	(3)	22,295	5,079	17,216	1,198
3572	Typewriters.....	2,789	(3)	2,641	(3)	8,862	3,473	5,389	2,494
3576	Scales and balances.....	1,103	(3)	856	(3)	1,457	423	1,034	107
3579	Office and store machines, n.e.c.....	6,603	1,658	4,945	(3)	4,490	1,429	3,061	1,494
358	Service and household machines.....	138,546	46,132	92,414	3,446	75,459	23,620	51,839	9,645
3581	Domestic laundry equipment.....	18,569	7,143	11,426	1,470	9,569	2,923	6,646	1,144
3582	Laundry and dry-cleaning machinery.....	1,062	(3)	911	(3)	1,694	387	1,307	540
3583	Sewing machines.....	3,045	791	2,254	(3)	5,089	635	4,454	191
3584	Vacuum cleaners.....	2,094	(3)	1,863	(3)	4,526	1,697	2,829	387
3585	Refrigeration machinery.....	107,708	36,826	70,882	1,309	46,131	14,511	31,620	6,719
3586	Measuring and dispensing pumps.....	2,002	(3)	1,730	(3)	2,436	985	1,451	309
3589	Service and household machines, n.e.c.....	4,065	716	3,348	(3)	6,014	2,482	3,532	355
359	Miscellaneous machinery parts.....	104,033	22,524	81,509	8,970	59,683	13,368	46,315	8,463
3591	Valves and fittings, except plumbing.....	24,869	5,401	19,468	990	20,877	3,936	16,941	2,136
3592	Fabricated pipe and fittings.....	4,804	1,820	2,984	559	4,084	1,731	2,353	776
3593	Ball and roller bearings.....	27,828	3,153	24,675	1,603	21,872	4,595	17,277	3,491
3594	Industrial patterns and molds.....	6,939	1,303	5,636	713	(NA)	(NA)	(NA)	(NA)
3599	Machine shops.....	39,588	10,842	28,746	5,105	12,850	3,106	9,744	2,060
36	Electrical machinery.....	340,677	93,067	247,610	15,347	244,606	64,874	179,732	31,472
361	Electrical industrial apparatus.....	136,044	38,843	97,201	7,062	91,783	23,948	67,835	14,868
3611	Wiring devices and supplies.....	12,346	3,189	9,157	517	13,801	4,418	9,383	1,251
3612	Carbon and graphite products.....	6,492	1,352	5,140	(3)	1,641	259	1,382	1,665
3613	Electrical measuring instruments.....	16,133	7,661	8,472	(3)	4,342	1,145	3,197	118
3614	Motors and generators.....	38,310	5,132	33,178	4,173	36,666	8,833	27,833	5,251
3615	Transformers.....	22,852	5,742	17,110	1,027	13,479	3,168	10,311	453
3616	Electrical control apparatus.....	31,478	14,494	16,984	900	17,300	5,110	12,190	5,498
3617	Electrical welding apparatus.....	4,713	1,060	3,653	(3)	2,089	507	1,582	150
3619	Electrical industrial apparatus, n.e.c.....	3,717	(3)	3,507	(3)	2,465	508	1,957	482
3621	Electrical appliances.....	20,786	5,875	14,911	962	16,446	2,992	13,454	1,445
3631	Insulated wire and cable.....	7,961	1,497	6,464	(3)	6,071	1,212	4,859	407
3641	Engine electrical equipment.....	18,172	2,814	15,358	798	7,983	1,993	5,990	1,319
3651	Electric lamps (bulbs).....	8,288	589	7,699	(3)	11,318	1,997	9,321	210
366	Communication equipment.....	132,581	39,504	93,077	5,806	96,997	28,683	68,314	12,138
3661	Radios and related products.....	73,594	28,952	44,642	2,083	43,714	20,406	23,308	6,971
3662	Electronic tubes.....	32,836	7,640	25,196	(3)	5,602	239	5,363	3,433
3663	Phonograph records.....	2,992	846	2,146	(3)	7,006	3,012	3,994	600
3664	Telephone and telegraph equipment.....	22,144	1,955	20,189	3,188	39,280	4,565	34,715	1,134
3669	Communication equipment, n.e.c.....	1,013	(3)	904	(3)	1,395	461	934	...
369	Electrical products, n.e.c.....	16,844	3,944	12,900	(3)	14,008	4,049	9,959	1,085
3691	Storage batteries.....	10,512	2,704	7,808	(3)	7,910	2,528	5,382	928
3692	Primary batteries.....	2,088	(3)	1,677	(3)	1,327	80	1,247	...
3693	X-ray and therapeutic apparatus.....	1,913	(3)	1,590	(3)	2,271	758	1,513	59
3699	Electrical products, n.e.c.....	2,330	505	1,825	(3)	2,500	683	1,817	98

See footnotes at end of table.

MANUFACTURES—SUMMARY STATISTICS

Table 3.—MANUFACTURERS' EXPENDITURES FOR PLANT AND EQUIPMENT, FOR ESTABLISHMENTS IN OPERATION, BY INDUSTRY
GROUP AND INDUSTRY: 1954 AND 1947—Continued

(In thousands of dollars. For explanation of column captions see Introduction)

Code	Industries and industry groups	1954 ¹				1947 ¹			
		Expenditures for new plant and equipment			Expenditures for used plant and equipment	Expenditures for new plant and equipment			Expenditures for used plant and equipment
		Total	New construction	New machinery and equipment		Total	New construction	New machinery and equipment	
37	Transportation equipment.....	924,646	180,804	743,842	46,803	354,974	99,514	255,460	77,616
371	Motor vehicles and equipment.....	730,837	109,883	620,954	24,502	288,053	75,547	212,506	25,090
3713	Truck and bus bodies.....	3,445	1,413	2,032	(³)	8,762	3,597	5,165	836
3715	Truck trailers.....	2,788	1,054	1,734	(³)	6,147	3,465	2,682	248
3716	Automobile trailers.....	2,404	872	1,532	(³)	3,424	2,021	1,403	210
3717	Motor vehicles and parts.....	722,199	106,543	615,656	23,595	269,720	66,464	203,256	23,796
372	Aircraft and parts.....	142,206	54,399	87,807	9,619	27,867	9,016	18,851	43,965
3721	Aircraft.....	59,446	24,419	35,026	2,786	7,901	2,349	5,552	17,921
3722	Aircraft engines.....	46,689	19,532	27,157	1,819	13,651	4,537	9,114	22,151
3723	Aircraft propellers.....	4,320	1,559	2,760	(³)	3,361	1,259	2,102	3,232
3729	Aircraft equipment, n.e.c.....	31,750	8,886	22,864	4,660	2,954	871	2,083	661
373	Ships and boats.....	24,120	10,708	13,412	1,696	11,546	5,277	6,269	3,272
3731	Ship building and repairing.....	19,316	8,293	11,023	1,502	8,982	3,696	5,286	2,456
3732	Boat building and repairing.....	4,804	2,415	2,389	(³)	2,564	1,581	983	816
374	Railroad equipment.....	25,445	5,361	20,084	10,941	21,681	7,190	14,491	4,216
3741	Locomotives and parts.....	6,370	(³)	5,848	10,658	10,021	3,321	6,700	1,465
3742	Railroad and street cars.....	19,074	4,838	14,236	(³)	11,660	3,869	7,791	2,751
3751	Motorcycles and bicycles.....	1,476	(³)	1,190	(³)	4,600	2,073	2,527	918
3799	Transportation equipment, n.e.c.....	561	(³)	(³)	(³)	1,227	411	816	155
38	Instruments and related products.....	94,008	26,647	67,361	3,990	56,000	15,313	40,687	9,721
3811	Scientific instruments.....	8,615	2,615	6,000	(³)	4,489	1,645	2,844	3,566
3821	Mechanical measuring instruments.....	21,487	5,896	15,591	707	8,846	1,706	7,140	1,440
3831	Optical instruments and lenses.....	4,555	2,432	2,123	(³)	1,520	255	1,265	331
384	Medical instruments and supplies.....	12,401	5,067	7,334	1,095	9,014	2,713	6,301	1,052
3841	Surgical and medical instruments.....	975	(³)	739	(³)	898	369	529	388
3842	Surgical appliances and supplies.....	9,991	4,672	5,319	766	5,730	1,573	4,157	565
3843	Dental equipment and supplies.....	1,434	(³)	1,276	(³)	2,386	771	1,615	99
3851	Ophthalmic goods.....	5,042	1,088	3,954	(³)	3,722	1,081	2,641	678
3861	Photographic equipment.....	37,924	8,758	29,166	1,533	23,145	7,485	15,660	2,025
387	Watches and clocks.....	3,981	788	3,193	(³)	5,264	428	4,836	629
3871	Watches and clocks.....	3,511	765	2,746	(³)	4,743	338	4,405	546
3872	Watchcases.....	(³)	(³)	(³)	(³)	521	90	431	83
39	Miscellaneous manufactures ⁴	176,036	44,062	131,974	13,512	106,960	31,515	75,445	9,712
391	Jewelry and silverware.....	7,339	2,003	5,336	844	10,185	3,024	7,161	1,382
3911	Jewelry (precious metal).....	1,835	585	1,251	(³)	2,674	887	1,787	719
3912	Jewelers' findings.....	1,558	(³)	1,283	(³)	2,005	627	1,378	353
3913	Lapidary work.....	(³)	(³)	(³)	(³)	148	8	140	62
3914	Silverware and plated ware.....	3,826	1,123	2,702	672	5,358	1,502	3,856	248
393	Musical instruments and parts.....	1,922	643	1,279	(³)	2,445	1,141	1,304	391
3931	Pianos.....	513	(³)	(³)	(³)	1,138	714	424	325
3932	Organs.....	(³)	(³)	(³)	(³)	241	178	63	4
3933	Piano and organ parts.....	542	(³)	(³)	(³)	565	191	374	22
3939	Musical instruments, n.e.c.....	704	(³)	(³)	(³)	501	58	443	40
394	Toys and sporting goods.....	17,599	3,854	13,745	822	16,829	5,926	10,903	2,189
3941	Games and toys, n.e.c.....	8,358	1,806	6,552	(³)	6,811	1,879	4,932	315
3942	Dolls.....	2,247	(³)	2,018	(³)	1,107	159	948	63
3943	Children's vehicles.....	1,325	(³)	1,080	(³)	1,560	300	1,260	1,145
3949	Sporting and athletic goods.....	5,668	1,567	4,095	(³)	7,351	3,588	3,763	666
395	Office supplies.....	7,399	1,821	5,576	(³)	7,099	1,828	5,271	377
3951	Pens and mechanical pencils.....	3,054	901	2,153	(³)	3,865	869	2,996	141
3952	Lead pencils and crayons.....	1,741	(³)	1,426	(³)	1,105	315	790	27
3953	Hand stamps and stencils.....	1,060	(³)	850	(³)	924	363	561	84
3954	Artists' materials.....	(³)	(³)	(³)	(³)	265	26	239	15
3955	Carbon paper and inked ribbons.....	1,120	(³)	837	(³)	940	255	685	110
396	Costume jewelry and notions.....	10,165	2,210	7,955	637	10,370	1,872	8,498	792
3961	Costume jewelry.....	3,621	1,354	2,267	(³)	3,146	759	2,387	181
3962	Artificial flowers.....	(³)	(³)	(³)	(³)	515	118	397	263
3963	Buttons.....	1,139	(³)	990	(³)	1,131	106	1,025	42
3964	Needles, pins, and fasteners.....	4,981	556	4,425	(³)	5,578	889	4,689	306
3971	Plastics products, n.e.c.....	45,290	11,563	33,727	3,207	27,042	7,691	19,351	2,206

See footnotes at end of table.

EXPENDITURES FOR PLANT AND EQUIPMENT

206-11'

Table 3.—MANUFACTURERS' EXPENDITURES FOR PLANT AND EQUIPMENT, FOR ESTABLISHMENTS IN OPERATION, BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued

(In thousands of dollars. For explanation of column captions see Introduction)

Code	Industries and industry groups	1954 ¹				1947 ¹			
		Expenditures for new plant and equipment			Expenditures for used plant and equipment	Expenditures for new plant and equipment			Expenditures for used plant and equipment
		Total	New construction	New machinery and equipment		Total	New construction	New machinery and equipment	
	Miscellaneous manufactures ⁴ —Continued								
398	Miscellaneous manufactures ⁴	86,319	21,963	64,356	7,734	32,990	10,033	22,957	2,375
399									
3981	Brooms and brushes.....	3,074	799	2,275	(3)	4,715	1,490	3,225	453
3982	Cork products.....	1,486	(3)	1,251	(3)	986	266	720	163
3983	Matches.....	846	(3)	542	(3)	2,748	989	1,759	12
3984	Candles.....	822	(3)	540	(3)	1,299	671	628	46
3985	Fireworks and pyrotechnics.....	(3)	(3)	(3)	(3)	649	240	409	18
3986	Jewelry and instrument cases.....	781	(3)	659	(3)	764	133	631	54
3987	Lamp shades.....	(3)	(3)	(3)	(3)	327	150	177	51
3988	Morticians' goods.....	2,846	1,077	1,769	(3)	3,441	1,045	2,396	278
3991	Beauty and barber-shop equipment.....	(3)	(3)	(3)	(3)	263	39	224	66
3992	Furs, dressed and dyed.....	(3)	(3)	(3)	(3)	503	104	399	33
3993	Signs and advertising displays.....	6,967	2,539	4,428	(3)	5,540	2,120	3,420	604
3994	Hairwork.....	(3)	(3)	(3)	(3)	51	9	42	18
3995	Umbrellas, parasols, and canes.....	(3)	(3)	(3)	(3)	526	241	285	4
3996	Tobacco pipes.....	(3)	(3)	(3)	(3)	110	21	89	28
3997	Soda-fountain and bar equipment.....	(3)	(3)	(3)	(3)	770	157	613	93
3999	Miscellaneous products, n.e.c.....	6,761	3,450	3,311	784	3,887	1,025	2,862	268
1951	Small arms.....	4,495	812	3,683	(3)	3,898	987	2,911	112
1961	Small arms ammunition.....	8,247	1,505	6,742	2,233	2,513	346	2,167	74
19--	Ordnance and accessories except industries 1951 and 1961.....	48,331	10,424	37,907	3,872	...	...	...	...

NOTE: Detailed figures may not add to the totals because of independent rounding and for the reason indicated in footnote 3, below.

D Withheld to avoid disclosing figures for individual companies. NA Not available.

¹In 1954, establishments that reported on the short form (generally those with less than six employees) were asked to show only their total expenditures for new plant and equipment. Their 1954 totals were prorated on the basis of 1954 industry averages of the establishments that reported detailed expenditures by type to obtain separate expenditures figures for new plant, new equipment and used plant and equipment representing all establishments for 1954. In 1947, very small establishments that accounted for approximately 1.6% of the total value added by manufacture, did not report expenditure data and are not represented in the 1947 figures. See 1947 Census of Manufactures, Volume I, Chapter VI for a measure of under-coverage by industry.

²The 1954 figures include data for establishments engaged in the processing and distribution of fluid milk, Industry Group 202, Dairy Products and for Logging Camps and Contractors, Industry 2411, which were not included within the scope of the 1947 Census.

³The figure is less than one half million dollars and is included in all totals.

⁴Includes privately owned and/or operated establishments classified in Major Industry Group 19, Ordnance and Accessories. Establishments which are government owned and operated are not included.

MANUFACTURES—SUMMARY STATISTICS

Table 4.—MANUFACTURERS' EXPENDITURES FOR NEW PLANT AND EQUIPMENT, BY DIVISIONS AND STATES: 1954 AND EARLIER YEARS

(In thousands of dollars. For explanation of column captions see Introduction)

Division and State	1954 ¹			1953 ²			1952 ²			1951 ²			1947 ¹ expendi- tures for new plant and equipment for es- tablish- ments in operation
	Total expendi- tures for new plant and equip- ment	Expenditures for—		Total	Expenditures for—		Total	Expenditures for—		Total	Expenditures for—		
		Estab- lish- ments in opera- tion	Estab- lish- ments under con- struc- tion ³		Estab- lish- ments in opera- tion	Estab- lish- ments under con- struc- tion		Estab- lish- ments in opera- tion	Estab- lish- ments under con- struc- tion				
United States, total.....	8,202,142	7,818,155	383,987	8,047,892	7,541,606	506,286	7,883,369	7,525,923	357,446	7,781,731	7,205,059	576,672	5,998,099
New England.....	424,264	424,264	(D)	389,542	387,721	1,821	419,737	419,368	369	452,398	429,678	22,720	418,580
Maine.....	58,935	58,935	...	38,593	38,593	...	31,283	31,283	...	42,638	39,635	3,003	35,055
New Hampshire....	18,492	18,492	(D)	14,581	14,581	...	19,115	19,115	(D)	25,449	25,449	...	24,010
Vermont.....	8,876	8,876	(D)	9,527	9,527	...	11,615	11,615	...	(S)	(S)	51	9,698
Massachusetts....	180,698	180,698	(D)	157,212	157,212	(D)	180,840	180,840	(D)	172,920	164,708	8,212	198,985
Rhode Island.....	27,671	27,671	...	33,643	33,455	188	29,476	29,476	...	42,205	42,205	...	34,609
Connecticut.....	129,591	129,591	(D)	134,353	134,353	(D)	147,039	147,039	...	150,576	139,122	11,454	116,223
Middle Atlantic....	1,606,509	1,552,857	53,652	1,622,020	1,581,553	40,467	1,777,707	1,735,197	42,510	1,743,087	1,565,054	178,033	1,335,235
New York.....	581,082	572,125	8,957	514,135	511,573	2,562	550,845	528,407	22,438	542,114	532,654	9,460	497,443
New Jersey.....	392,380	359,816	32,564	332,939	325,616	7,323	311,324	305,466	5,858	363,399	355,669	7,730	303,987
Pennsylvania.....	633,046	620,915	12,131	774,946	744,364	30,582	915,538	901,324	14,214	837,574	676,731	160,843	533,805
East North Central..	2,727,458	2,653,950	73,508	2,642,571	2,535,657	106,914	2,466,453	2,391,797	74,656	2,456,896	2,351,830	105,066	1,863,548
Ohio.....	770,606	760,932	9,674	735,425	672,246	63,179	747,744	731,524	16,220	806,752	790,976	15,776	498,254
Indiana.....	301,247	301,247	(D)	426,047	420,827	5,220	379,394	362,788	16,606	357,554	333,951	23,603	302,104
Illinois.....	575,233	551,882	23,351	602,058	596,446	5,612	548,351	526,373	21,978	509,046	479,973	29,073	472,657
Michigan.....	897,842	870,465	27,377	708,306	678,537	29,769	607,846	588,169	19,677	588,487	551,873	36,614	427,746
Wisconsin.....	169,422	169,422	(D)	170,735	167,601	(S)	183,118	182,943	175	195,057	195,057	...	162,787
West North Central..	400,211	389,113	11,098	387,323	358,591	28,732	327,411	319,684	7,727	370,812	353,344	17,468	340,462
Minnesota.....	87,069	82,188	4,881	96,113	96,113	...	55,559	55,559	...	66,485	66,485	...	82,800
Iowa.....	77,666	73,410	4,256	64,614	64,614	(D)	59,783	59,783	(D)	88,651	87,358	1,293	64,686
Missouri.....	124,394	124,394	(D)	112,844	112,844	(D)	129,323	124,206	5,117	114,965	101,990	12,975	132,166
North Dakota.....	16,244	16,244	...	13,070	3,694	9,376	(S)	(S)	...	(S)	(S)	...	2,250
South Dakota.....	3,444	3,444	...	3,270	3,270	...	2,148	2,148	...	4,851	4,851	...	3,371
Nebraska.....	36,414	36,414	...	36,031	19,342	16,689	21,807	21,807	(D)	16,853	16,853	(D)	18,402
Kansas.....	53,017	53,017	(D)	58,714	58,714	...	56,264	54,779	1,485	74,264	74,264	(D)	36,787
South Atlantic.....	832,896	789,323	43,573	850,964	760,852	90,112	754,463	687,892	66,571	871,316	795,660	75,656	677,651
Delaware.....	23,375	23,375	(D)	27,024	27,024	...	31,511	31,511	...	33,074	22,814	10,260	21,137
Maryland.....	93,908	93,908	(D)	115,935	115,935	...	96,598	96,598	(D)	100,329	98,208	2,121	123,599
Dist. of Columbia	6,536	6,536	...	3,733	3,733	...	3,884	3,884	...	6,983	6,983	...	4,502
Virginia.....	109,887	109,887	(D)	134,874	134,874	(D)	88,642	88,642	(D)	127,952	127,952	(D)	112,383
West Virginia....	98,883	98,883	(D)	113,776	96,527	17,249	93,838	93,838	(D)	113,356	107,716	5,640	82,332
North Carolina....	129,622	129,622	(D)	135,411	126,758	8,653	141,109	117,058	24,051	165,786	135,201	30,585	137,583
South Carolina....	62,865	59,629	3,236	58,859	58,859	(D)	94,489	93,122	1,367	130,505	130,505	(D)	61,743
Georgia.....	173,066	162,849	10,217	143,866	93,937	49,929	103,666	93,331	10,335	115,460	110,159	5,301	84,320
Florida.....	105,078	104,631	447	103,205	103,205	(D)	87,475	69,908	17,567	75,926	56,122	19,804	50,052
East South Central..	430,323	395,995	34,328	399,322	388,260	11,062	376,557	309,568	66,989	339,742	310,505	29,237	256,002
Kentucky.....	152,947	124,037	28,910	109,007	103,141	5,866	129,302	76,003	53,299	87,423	77,243	10,180	77,135
Tennessee.....	156,058	152,698	3,360	156,438	156,438	(D)	110,854	102,586	(S)	113,624	105,227	8,397	83,792
Alabama.....	82,248	82,248	(D)	98,571	98,571	(D)	102,831	101,580	(S)	97,132	89,042	8,090	72,362
Mississippi.....	37,008	37,008	(D)	31,369	30,110	(S)	29,399	29,399	(D)	41,563	38,993	2,570	22,713
West South Central..	765,743	721,066	44,677	883,038	754,766	128,272	951,436	880,616	70,820	717,571	610,952	106,619	457,920
Arkansas.....	42,715	42,715	(D)	70,206	37,990	32,216	53,286	53,286	(D)	40,183	31,377	8,806	30,262
Louisiana.....	174,396	174,369	(D)	245,250	222,344	22,906	233,665	215,304	18,361	136,205	135,087	1,118	97,210
Oklahoma.....	51,740	51,740	...	62,894	57,270	5,624	38,272	38,272	(D)	38,147	31,939	6,208	25,504
Texas.....	479,349	452,214	27,135	504,688	437,162	67,526	619,116	573,754	45,362	503,036	412,549	90,487	304,944
Mountain.....	126,844	126,844	(D)	122,340	111,330	11,010	126,649	119,631	7,018	123,777	107,858	15,919	95,023
Montana.....	20,574	20,574	(D)	31,881	22,572	9,309	10,958	10,958	(D)	(S)	(S)	...	7,446
Idaho.....	20,627	20,627	(D)	16,818	16,818	...	24,861	24,861	...	16,731	(S)	(D)	11,447
Wyoming.....	6,899	6,899	...	14,423	14,423	...	15,142	15,142	...	12,328	6,098	(S)	10,235
Colorado.....	30,121	30,121	(D)	26,583	26,583	(D)	34,183	34,183	(D)	31,481	31,141	340	32,189
New Mexico.....	6,585	6,585	...	3,932	3,932	...	4,773	4,773	(D)	5,060	5,060	...	5,431
Arizona.....	13,800	13,800	...	7,199	7,199	...	11,193	11,193	...	9,483	9,483	(D)	8,328
Utah.....	23,385	23,385	(D)	15,009	15,009	...	17,076	17,076	(D)	25,057	25,057	...	16,988
Nevada.....	4,850	4,850	...	4,794	4,794	(D)	(S)	(S)	(D)	1,774	1,774	(D)	2,959
Pacific.....	841,071	764,743	76,328	750,772	662,876	87,896	682,956	662,170	20,786	706,132	680,178	25,954	553,678
Washington.....	147,130	147,130	(D)	125,083	95,432	29,651	144,892	140,488	4,404	100,826	94,829	5,994	81,476
Oregon.....	67,811	67,811	(D)	63,377	63,377	...	80,154	80,154	...	111,550	106,364	(S)	61,669
California.....	590,989	549,801	41,188	562,312	504,067	58,245	457,910	441,528	16,382	493,756	478,985	14,771	410,533

Note: Detailed figures may not add to the totals because of independent rounding and for reasons indicated in disclosure statement. D Withheld to avoid disclosure of data for individual companies. Where the symbol "D" appears for a State or division under the heading, "Establishments under construction," the withheld data have been excluded from the total expenditure figure for that area. They are, however, included in "United States" totals for "Establishments under construction" and for "All establishments." S Withheld because the estimate did not meet publication standards, either on the basis of the associated standard error of estimate or on the basis of a consistency review. ¹In 1954, all establishments reported expenditures for new plant and equipment. In 1947, very small establishments that accounted for approximately 1.6 percent of the total value added by manufacture did not report expenditure data and are not represented in the 1947 figures. See 1947 Census of Manufactures, Volume I, Chapter VI for a measure of undercoverage by industry. ²The expenditures figures for manufacturing establishments for 1951-1953 are estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period. ³The figures presented for establishments under construction are based on reports received from the 1,700 largest manufacturing companies and from a sample of all other companies covered in the Census. The standard errors for the published totals that include the sample estimates are as follows:

Division and State	Standard error (percent)	Division and State	Standard error (percent)	Division and State	Standard error (percent)
United States, total.....	2	East North Central.....	7	South Atlantic.....	3
Middle Atlantic.....	3	Illinois.....	5	South Carolina.....	15
Pennsylvania.....	12	Michigan.....	11	Georgia.....	1
				Pacific.....	1

Table 5.—MANUFACTURERS' EXPENDITURES FOR NEW PLANT AND EQUIPMENT, FOR DIVISIONS AND STATES: 1954

(In thousands of dollars. For explanation of column captions, see Introduction)

Division and State	All establishments			Establishments in operation			Establishments under construction ¹		
	Total expenditures	New structures and additions to plant	New machinery and equipment	Total expenditures	New structures and additions to plant	New machinery and equipment	Total expenditures	New structures and additions to plant	New machinery and equipment
United States, total.....	8,202,142	2,458,962	5,743,180	7,818,155	2,250,222	5,567,933	383,987	208,740	175,247
New England.....	424,264	86,845	337,419	424,264	86,845	337,419	(D)	(D)	(D)
Maine.....	58,935	14,265	44,670	58,935	14,265	44,670	...	...	...
New Hampshire.....	18,492	3,753	14,739	18,492	3,753	14,739	(D)	...	(D)
Vermont.....	8,876	1,380	7,496	8,876	1,380	7,496	(D)	...	(D)
Massachusetts.....	180,698	37,415	143,283	180,698	37,415	143,283	(D)	(D)	(D)
Rhode Island.....	27,671	3,601	24,070	27,671	3,601	24,070	...	...	...
Connecticut.....	129,591	26,430	103,161	129,591	26,430	103,161	(D)	(D)	(D)
Middle Atlantic.....	1,606,509	455,881	1,150,628	1,552,857	420,450	1,132,407	53,652	35,431	18,221
New York.....	581,082	124,577	456,505	572,125	120,459	451,666	8,957	4,118	4,839
New Jersey.....	392,380	123,468	268,912	359,816	102,372	257,444	32,564	21,096	11,468
Pennsylvania.....	633,046	207,835	425,211	620,915	197,618	423,297	12,131	10,217	1,914
East North Central.....	2,727,458	765,596	1,961,862	2,653,950	727,265	1,926,685	73,508	38,331	35,177
Ohio.....	770,606	207,133	563,473	760,932	203,892	557,040	9,674	3,241	6,433
Indiana.....	301,247	102,850	198,397	301,247	102,850	198,397	(D)	(D)	(D)
Illinois.....	575,233	211,117	364,116	551,882	197,415	354,467	23,351	13,702	9,649
Michigan.....	897,842	182,241	715,601	870,465	167,825	702,640	27,377	14,416	12,961
Wisconsin.....	169,422	55,281	114,141	169,422	55,281	114,141	(D)	(D)	(D)
West North Central.....	400,211	146,289	253,921	389,113	142,288	246,824	11,098	4,001	7,097
Minnesota.....	87,069	27,871	59,198	82,188	25,914	56,274	4,881	1,957	2,924
Iowa.....	77,666	30,197	47,469	73,410	28,680	44,730	4,256	1,517	2,739
Missouri.....	124,394	37,822	86,572	124,394	37,822	86,572	(D)	(D)	(D)
North Dakota.....	16,244	14,112	2,132	16,244	14,112	2,132	...	...	...
South Dakota.....	3,444	1,255	2,189	3,444	1,255	2,189	...	...	...
Nebraska.....	36,414	9,346	27,068	36,414	9,346	27,068	...	...	...
Kansas.....	53,017	25,158	27,859	53,017	25,158	27,859	(D)	(D)	(D)
South Atlantic.....	832,896	243,853	589,043	789,323	223,003	566,320	43,573	20,850	22,723
Delaware.....	23,375	5,750	17,625	23,375	5,750	17,625	(D)	(D)	...
Maryland.....	93,908	34,873	59,035	93,908	34,873	59,035	(D)	(D)	(D)
District of Columbia.....	6,536	1,586	4,950	6,536	1,586	4,950	...	...	...
Virginia.....	109,887	41,576	75,759	109,887	34,128	75,759	(D)	7,448	(D)
West Virginia.....	98,883	27,243	71,640	98,883	27,243	71,640	(D)	(D)	(D)
North Carolina.....	129,622	36,845	92,777	129,622	36,845	92,777	(D)	(D)	(D)
South Carolina.....	62,865	12,933	46,696	59,629	12,933	46,696	3,236	(D)	(D)
Georgia.....	173,066	48,407	124,659	162,849	43,480	119,369	10,217	4,927	5,290
Florida.....	105,078	26,442	78,636	104,631	26,162	78,469	447	280	167
East South Central.....	430,323	120,693	309,630	395,995	105,313	290,682	34,328	15,380	18,948
Kentucky.....	152,947	30,921	93,116	124,037	30,921	93,116	28,910	(D)	(D)
Tennessee.....	156,058	42,934	113,124	152,698	41,169	111,529	3,360	1,765	1,595
Alabama.....	82,248	21,673	60,575	82,248	21,673	60,575	(D)	(D)	(D)
Mississippi.....	37,008	11,546	25,462	37,008	11,546	25,462	(D)	(D)	(D)
West South Central.....	765,743	283,586	482,157	721,066	260,617	460,449	44,677	22,969	21,708
Arkansas.....	42,715	16,568	26,147	42,715	16,568	26,147	(D)	(D)	(D)
Louisiana.....	174,396	48,037	126,359	174,396	48,037	126,359	(D)	(D)	(D)
Oklahoma.....	51,740	18,857	32,883	51,740	18,857	32,883	...	...	...
Texas.....	479,349	188,974	290,375	452,214	177,154	275,060	27,135	11,820	15,315
Mountain.....	126,844	40,054	86,790	126,844	40,054	86,790	(D)	(D)	(D)
Montana.....	20,574	9,360	11,214	20,574	9,360	11,214	(D)	(D)	(D)
Idaho.....	20,627	5,105	15,522	20,627	5,105	15,522	(D)	...	(D)
Wyoming.....	6,899	5,285	1,614	6,899	5,285	1,614	...	...	...
Colorado.....	30,121	7,866	22,255	30,121	7,866	22,255	(D)	(D)	(D)
New Mexico.....	6,585	1,989	4,596	6,585	1,989	4,596	...	...	...
Arizona.....	13,800	5,055	8,745	13,800	5,055	8,745	...	...	...
Utah.....	23,385	4,579	18,806	23,385	4,579	18,806	(D)	(D)	(D)
Nevada.....	4,850	812	4,038	4,850	812	4,038	...	...	...
Pacific.....	841,071	297,221	543,850	764,743	244,386	520,357	76,328	52,835	23,493
Washington.....	147,130	44,830	102,300	147,130	44,830	102,300	(D)	(D)	(D)
Oregon.....	67,811	15,813	51,998	67,811	15,813	51,998	(D)	(D)	(D)
California.....	590,989	206,695	384,294	549,801	183,742	366,059	41,188	22,953	18,235

Note: Detailed figures may not add to totals because of independent rounding and for reasons in disclosure statement. D Withheld to avoid disclosure of data for individual companies. Where the symbol "D" appears for a State or division under the heading, "Establishments under construction," the withheld data have been excluded from the all establishments figure for that area. They are, however, included in "United States" totals for "Establishments under construction" and for "All establishments." ¹The figures presented for establishments under construction are based on reports received from the 1,700 largest manufacturing companies and from a sample of all other companies covered in the Census. The standard errors for the published totals that include the sample estimates are as follows:

Division and State	Standard error (percent) for establishments under construction			Division and State	Standard error (percent) for establishments under construction		
	Total expenditures	New structures and additions to plant	New machinery and equipment		Total expenditures	New structures and additions to plant	New machinery and equipment
United States, total.....	2	1	4	East North Central.....	7	6	10
				Illinois.....	5	7	4
				Michigan.....	11	11	17
				South Atlantic.....	3	...	5
Middle Atlantic.....	3	4	...	South Carolina.....	15	...	...
Pennsylvania.....	12	14	...	Georgia.....	1	...	1
				Pacific.....	1	1	...

MANUFACTURES—SUMMARY STATISTICS

Table 6.—MANUFACTURERS' EXPENDITURES FOR NEW PLANT AND EQUIPMENT, FOR ESTABLISHMENTS IN OPERATION, BY DIVISIONS AND STATES BY MAJOR INDUSTRY GROUP: 1954

(In thousands of dollars. For explanation of column captions see Introduction)

Code	Major industry group	Total expenditures	New structures and additions to plant	New machinery and equipment	Total expenditures	New structures and additions to plant	New machinery and equipment	Total expenditures	New structures and additions to plant	New machinery and equipment
		New England Division			Maine			New Hampshire		
	Total.....	424,264	86,845	337,419	58,935	14,265	44,670	18,492	3,753	14,739
20	Food and kindred products.....	27,914	5,642	22,272	3,410	760	2,650	1,377	(1)	1,125
21	Tobacco manufactures.....	(1)	(1)	(1)	...	...	...	(D)	(D)	(D)
22	Textile mill products.....	27,316	3,583	23,733	2,350	(1)	2,056	1,921	241	1,680
23	Apparel and related products.....	4,576	725	3,851	(1)	12	(1)	(1)	(1)	(1)
24	Lumber and wood products.....	9,526	2,037	7,489	5,217	1,094	4,123	2,005	(1)	1,669
25	Furniture and fixtures.....	2,940	900	2,040	(1)	(1)	(1)	(1)	(1)	(1)
26	Pulp, paper and products.....	71,243	15,513	55,730	42,083	10,254	31,829	3,768	(1)	3,373
27	Printing and publishing.....	17,115	5,105	12,010	535	274	261	(1)	(1)	(1)
28	Chemicals and products.....	24,271	6,143	18,128	331	66	265	(1)	(1)	(1)
29	Petroleum and coal products.....	4,798	3,778	1,020	(D)	(D)	(D)	(D)	(D)	(D)
30	Rubber products.....	17,970	2,202	15,768	(D)	(D)	(D)	(1)	(1)	(1)
31	Leather and leather products.....	7,190	1,231	5,959	1,359	(1)	1,129	1,020	(1)	827
32	Stone, clay, and glass products...	8,692	2,126	6,566	554	(1)	(1)	514	(1)	(1)
33	Primary metal products.....	23,922	3,413	20,509	332	(1)	(1)	(1)	(1)	(1)
34	Fabricated metal products.....	23,480	3,750	19,730	(D)	(D)	(D)	(1)	(1)	(1)
35	Machinery, except electrical.....	59,795	5,870	53,925	513	(1)	500	2,402	510	1,892
36	Electrical machinery.....	33,131	7,191	25,940	106	(1)	(1)	3,286	975	2,311
37	Transportation equipment.....	22,359	8,792	13,567	955	577	378	(D)	(D)	(D)
38	Instruments and related products..	10,887	2,775	8,112	(D)	(D)	(D)	(D)	(D)	(D)
39	Miscellaneous manufactures ²	26,901	6,044	20,857	(D)	(D)	(D)	(1)	(1)	(1)
		Vermont			Massachusetts			Rhode Island		
	Total.....	8,876	1,380	7,496	180,698	37,415	143,283	27,671	3,601	24,070
20	Food and kindred products.....	1,016	281	735	15,187	2,892	12,295	2,088	392	1,696
21	Tobacco manufactures.....	...	...	...	(1)	(1)	(1)	(D)	(D)	(D)
22	Textile mill products.....	(1)	(1)	(1)	12,023	1,600	10,423	6,332	469	5,863
23	Apparel and related products.....	(1)	(1)	(1)	3,374	(1)	2,901	(1)	(1)	(1)
24	Lumber and wood products.....	824	(1)	629	1,032	(1)	765	(1)	(1)	(1)
25	Furniture and fixtures.....	(1)	(1)	(1)	1,460	(1)	982	(1)	(1)	(1)
26	Pulp, paper and products.....	902	(1)	865	19,945	3,916	16,029	(1)	(1)	(1)
27	Printing and publishing.....	546	(1)	(1)	10,531	3,217	7,314	752	(1)	680
28	Chemicals and products.....	(1)	(1)	(1)	13,757	3,800	9,957	1,893	(1)	1,415
29	Petroleum and coal products.....	(D)	(D)	(D)	3,935	3,374	561	(D)	(D)	(D)
30	Rubber products.....	(D)	(D)	(D)	8,776	810	7,966	1,271	(1)	1,141
31	Leather and leather products.....	(1)	(1)	(1)	4,398	668	3,730	(1)	(1)	(1)
32	Stone, clay, and glass products...	901	(1)	714	4,338	1,072	3,266	(1)	(1)	(1)
33	Primary metal products.....	(1)	(1)	(1)	4,872	653	4,219	2,199	(1)	2,005
34	Fabricated metal products.....	(D)	(D)	(D)	8,547	1,545	7,002	1,537	(1)	1,409
35	Machinery, except electrical.....	2,805	(1)	2,447	24,330	2,355	21,975	4,292	(1)	4,000
36	Electrical machinery.....	(1)	(1)	(1)	21,062	4,355	16,707	841	(1)	782
37	Transportation equipment.....	(D)	(D)	(D)	6,267	766	5,501	(D)	(D)	(D)
38	Instruments and related products..	(D)	(D)	(D)	5,841	1,569	4,272	(1)	(1)	(1)
39	Miscellaneous manufactures ²	(1)	(1)	(1)	10,999	3,594	7,405	4,057	718	3,339
		Connecticut			Middle Atlantic Division			New York		
	Total.....	129,591	26,430	103,161	1,552,857	420,450	1,132,407	572,125	120,459	451,666
20	Food and kindred products.....	4,833	1,062	3,771	131,408	32,058	99,350	61,414	14,582	46,832
21	Tobacco manufactures.....	(D)	(D)	(D)	2,100	566	1,534	(1)	(1)	(1)
22	Textile mill products.....	4,546	952	3,594	45,913	7,005	38,908	13,976	1,806	12,170
23	Apparel and related products.....	803	(1)	590	27,803	5,940	21,863	16,066	3,145	12,921
24	Lumber and wood products.....	(1)	(1)	(1)	9,064	2,649	6,415	4,567	1,310	3,257
25	Furniture and fixtures.....	615	(1)	(1)	11,098	2,957	8,141	6,011	1,479	4,532
26	Pulp, paper and products.....	4,195	881	3,314	72,518	13,058	59,460	30,235	4,159	26,076
27	Printing and publishing.....	4,252	1,273	2,979	61,801	13,580	48,221	34,341	8,230	26,111
28	Chemicals and products.....	8,102	1,726	6,376	168,711	37,190	131,521	43,032	9,949	33,083
29	Petroleum and coal products.....	(1)	(1)	(1)	140,392	107,977	32,415	5,791	2,764	3,027
30	Rubber products.....	7,400	1,194	6,206	19,723	2,885	16,838	4,492	(1)	3,997
31	Leather and leather products.....	(1)	(1)	(1)	6,912	1,699	5,213	3,623	545	3,078
32	Stone, clay, and glass products...	1,912	(1)	1,565	78,512	19,524	58,988	27,196	5,724	21,472
33	Primary metal products.....	16,261	2,302	13,959	199,766	46,953	152,813	29,667	7,539	22,128
34	Fabricated metal products.....	11,930	1,730	10,200	91,598	22,004	69,594	27,537	5,938	21,599
35	Machinery, except electrical.....	25,452	2,341	23,111	139,174	27,024	112,150	66,682	10,991	55,691
36	Electrical machinery.....	7,776	1,791	5,985	107,940	22,928	85,012	41,106	7,506	33,600
37	Transportation equipment.....	14,648	7,330	7,318	130,335	28,762	101,573	94,052	18,801	75,251
38	Instruments and related products..	4,624	1,105	3,519	54,730	15,123	39,607	38,060	10,545	27,515
39	Miscellaneous manufactures ²	(D)	(D)	(D)	53,348	10,557	42,791	24,141	4,929	19,212

See footnotes at end of table.

EXPENDITURES FOR PLANT AND EQUIPMENT

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Table 6.—MANUFACTURERS' EXPENDITURES FOR NEW PLANT AND EQUIPMENT, FOR ESTABLISHMENTS IN OPERATION,
BY DIVISIONS AND STATES BY MAJOR INDUSTRY GROUP: 1954—Continued

(In thousands of dollars. For explanation of column captions see Introduction)

Code	Major industry group	Total ex- penditures	New struc- tures and additions to plant	New machinery and equipment	Total ex- penditures	New struc- tures and additions to plant	New machinery and equipment	Total ex- penditures	New struc- tures and additions to plant	New machinery and equipment
		New Jersey			Pennsylvania			East North Central Division		
	Total.....	359,816	102,372	257,444	620,915	197,618	423,297	2,653,950	727,265	1,926,685
20	Food and kindred products.....	27,194	7,213	19,981	42,799	10,262	32,537	194,767	54,181	140,586
21	Tobacco manufactures.....	511	(1)	(1)	1,463	(1)	1,001	(1)	(1)	(1)
22	Textile mill products.....	10,380	2,013	8,367	21,556	3,185	18,371	7,435	1,937	5,498
23	Apparel and related products.....	4,720	1,022	3,698	7,015	1,771	5,244	13,198	5,881	7,317
24	Lumber and wood products.....	975	(1)	757	3,520	1,119	2,401	16,234	5,183	11,051
25	Furniture and fixtures.....	1,291	(1)	997	3,794	1,182	2,612	23,785	9,621	14,164
26	Pulp, paper and products.....	14,396	2,890	11,506	27,886	6,008	21,878	87,281	20,062	67,219
27	Printing and publishing.....	8,557	1,955	6,602	18,903	3,395	15,508	73,998	17,103	56,895
28	Chemicals and products.....	86,381	17,437	68,944	39,297	9,803	29,494	176,257	56,405	119,852
29	Petroleum and coal products.....	55,913	41,350	14,563	78,687	63,862	14,825	157,692	106,084	51,608
30	Rubber products.....	3,412	567	2,845	11,818	1,822	9,996	50,529	7,814	42,715
31	Leather and leather products.....	1,091	(1)	850	2,197	912	1,285	5,742	1,834	3,908
32	Stone, clay, and glass products..	18,924	6,415	12,509	32,391	7,384	25,007	91,632	26,996	64,636
33	Primary metal products.....	17,420	3,140	14,280	152,679	36,274	116,405	395,673	128,598	267,075
34	Fabricated metal products.....	22,437	2,432	20,005	41,623	13,633	27,990	201,143	55,806	145,337
35	Machinery, except electrical.....	27,397	1,130	26,267	45,094	14,902	30,192	341,275	84,681	256,594
36	Electrical machinery.....	30,948	6,171	24,777	35,885	9,250	26,635	124,115	34,275	89,840
37	Transportation equipment.....	8,050	3,551	4,499	28,231	6,408	21,823	641,511	95,925	545,586
38	Instruments and related products.	10,095	2,232	7,863	6,573	2,344	4,229	12,484	3,198	9,286
39	Miscellaneous manufactures ²	9,715	2,000	7,715	19,492	3,628	15,864	38,817	11,622	27,195
		Ohio			Indiana			Illinois		
	Total.....	760,932	203,892	557,040	301,247	102,850	198,397	551,882	197,415	354,467
20	Food and kindred products.....	39,031	10,458	28,573	20,405	5,353	15,052	67,809	16,919	50,890
21	Tobacco manufactures.....	(1)	(1)	(1)	(D)	(D)	(D)	(1)	(1)	(1)
22	Textile mill products.....	2,850	631	2,219	(1)	(1)	(1)	2,141	580	1,561
23	Apparel and related products.....	2,007	856	1,151	964	(1)	752	3,408	710	2,698
24	Lumber and wood products.....	2,296	654	1,642	3,185	1,398	1,787	2,614	1,041	1,573
25	Furniture and fixtures.....	6,930	3,410	3,520	3,970	1,272	2,698	7,125	3,640	3,485
26	Pulp, paper and products.....	21,796	5,572	16,224	5,361	1,943	3,418	11,182	3,116	8,066
27	Printing and publishing.....	22,532	8,063	14,469	5,392	1,200	4,192	28,129	4,033	24,096
28	Chemicals and products.....	52,465	14,202	38,263	22,007	7,986	14,021	53,969	22,243	31,726
29	Petroleum and coal products.....	49,488	31,871	17,617	52,993	38,426	14,567	42,177	29,124	13,053
30	Rubber products.....	33,331	4,847	28,484	6,167	2,095	4,072	2,076	(1)	1,598
31	Leather and leather products.....	678	(1)	552	(1)	(1)	(1)	2,128	684	1,444
32	Stone, clay, and glass products..	39,650	11,088	28,562	10,845	3,505	7,340	18,350	6,257	12,093
33	Primary metal products.....	153,940	56,062	97,878	50,002	18,695	31,307	55,190	24,120	31,070
34	Fabricated metal products.....	41,140	8,217	32,923	18,327	3,274	15,053	48,215	11,245	36,970
35	Machinery, except electrical.....	123,562	4,435	119,127	21,087	4,515	16,572	86,903	41,841	45,062
36	Electrical machinery.....	28,767	9,296	19,471	25,385	3,346	22,039	45,985	15,997	29,988
37	Transportation equipment.....	124,821	28,109	96,712	47,637	7,674	39,963	57,981	12,415	45,566
38	Instruments and related products.	2,366	614	1,752	906	(1)	(1)	6,327	1,080	5,247
39	Miscellaneous manufactures ²	13,111	5,357	7,754	(D)	(D)	(D)	10,142	1,881	8,261
		Michigan			Wisconsin			West North Central Division		
	Total.....	870,465	167,825	702,640	169,422	55,281	114,141	389,113	142,288	246,824
20	Food and kindred products.....	31,789	9,831	21,958	35,731	11,618	24,113	100,749	31,287	69,462
21	Tobacco manufactures.....	(1)	(1)	(1)	(D)	(D)	(D)	(1)	(1)	(1)
22	Textile mill products.....	1,126	(1)	706	893	(1)	785	1,292	(1)	1,035
23	Apparel and related products.....	6,398	4,004	2,394	(1)	(1)	(1)	3,627	1,280	2,347
24	Lumber and wood products.....	3,918	905	3,013	4,219	1,183	3,036	4,711	1,340	3,371
25	Furniture and fixtures.....	4,478	1,055	3,423	1,280	(1)	1,038	2,112	809	1,303
26	Pulp, paper and products.....	26,705	5,367	21,338	22,235	4,062	18,173	20,786	5,544	15,242
27	Printing and publishing.....	11,900	2,569	9,331	6,043	1,236	4,807	22,946	8,221	14,725
28	Chemicals and products.....	42,912	9,935	32,977	4,902	2,037	2,865	55,308	18,776	36,532
29	Petroleum and coal products.....	11,767	5,759	6,008	1,266	903	(1)	25,836	22,035	3,801
30	Rubber products.....	7,098	(1)	6,745	1,855	(1)	1,816	8,355	810	7,545
31	Leather and leather products.....	938	(1)	640	1,864	718	1,146	2,286	895	1,391
32	Stone, clay, and glass products..	17,761	4,435	13,326	5,024	1,709	3,315	20,373	6,448	13,925
33	Primary metal products.....	124,913	26,318	98,595	11,626	3,401	8,225	10,353	2,172	8,181
34	Fabricated metal products.....	84,535	31,616	52,919	8,924	1,452	7,472	19,392	5,490	13,902
35	Machinery, except electrical.....	73,765	14,856	58,909	35,957	19,033	16,924	40,608	22,320	18,288
36	Electrical machinery.....	13,274	3,229	10,045	10,702	2,405	8,297	10,761	2,019	8,742
37	Transportation equipment.....	400,972	45,092	355,880	10,098	2,633	7,465	21,058	7,271	13,787
38	Instruments and related products.	1,385	(1)	946	1,499	634	865	4,077	512	3,565
39	Miscellaneous manufactures ²	4,721	1,322	3,399	(D)	(D)	(D)	14,449	4,794	9,655

See footnotes at end of table.

MANUFACTURES—SUMMARY STATISTICS

Table 6.—MANUFACTURERS' EXPENDITURES FOR NEW PLANT AND EQUIPMENT, FOR ESTABLISHMENTS IN OPERATION, BY DIVISIONS AND STATES BY MAJOR INDUSTRY GROUP: 1954—Continued

(In thousands of dollars. For explanation of column captions see Introduction)

Code	Major industry group	Total expenditures	New structures and additions to plant	New machinery and equipment	Total expenditures	New structures and additions to plant	New machinery and equipment	Total expenditures	New structures and additions to plant	New machinery and equipment
		Minnesota			Iowa			Missouri		
	Total.....	82,188	25,914	56,274	73,410	28,680	44,730	124,394	37,822	86,572
20	Food and kindred products.....	28,903	9,448	19,455	18,739	5,327	13,412	27,985	7,930	20,055
21	Tobacco manufactures.....	(D)	(D)	(D)	...	...	...	(D)	(D)	(D)
22	Textile mill products.....	759	(1)	600	(1)	(1)	(1)	(1)	(1)	(1)
23	Apparel and related products.....	(1)	(1)	(1)	(1)	(1)	(1)	2,590	1,085	1,505
24	Lumber and wood products.....	2,502	696	1,806	887	(1)	595	955	(1)	689
25	Furniture and fixtures.....	584	(1)	(1)	(1)	(1)	(1)	801	(1)	530
26	Pulp, paper and products.....	11,189	3,118	8,071	1,554	(1)	1,122	6,861	1,826	5,035
27	Printing and publishing.....	4,541	952	3,589	3,424	586	2,838	9,575	4,841	4,734
28	Chemicals and products.....	4,047	1,102	2,945	6,457	1,385	5,072	12,179	2,904	9,275
29	Petroleum and coal products.....	1,134	516	618	(1)	(1)	(1)	3,694	3,075	619
30	Rubber products.....	(1)	(1)	(1)	5,928	663	5,265	(1)	(1)	(1)
31	Leather and leather products.....	(1)	(1)	(1)	(1)	(1)	(1)	2,047	872	1,175
32	Stone, clay, and glass products..	2,097	635	1,462	4,436	1,324	3,112	7,851	2,277	5,574
33	Primary metal products.....	3,011	986	2,025	2,154	(1)	1,911	4,893	919	3,974
34	Fabricated metal products.....	4,628	2,173	2,455	1,973	(1)	1,521	8,753	2,221	6,532
35	Machinery, except electrical.....	6,929	3,323	3,606	21,574	15,072	6,502	7,204	2,041	5,163
36	Electrical machinery.....	1,273	(1)	1,047	1,672	854	818	7,342	775	6,567
37	Transportation equipment.....	1,657	(1)	1,229	1,769	1,233	536	14,978	4,560	10,418
38	Instruments and related products.	(D)	(D)	(D)	(1)	(1)	(1)	731	(1)	509
39	Miscellaneous manufactures ²	(D)	(D)	(D)	1,847	507	1,340	(D)	(D)	(D)
		North Dakota			South Dakota			Nebraska		
	Total.....	16,244	14,112	2,132	3,444	1,255	2,189	36,414	9,346	27,068
20	Food and kindred products.....	1,358	509	849	2,194	712	1,482	11,482	3,671	7,811
21	Tobacco manufactures.....	...	...	...	...	...	...	...	...	...
22	Textile mill products.....	...	...	...	...	...	...	(D)	(D)	(D)
23	Apparel and related products.....	(D)	(D)	(D)	(D)	(D)	(D)	(1)	(1)	(1)
24	Lumber and wood products.....	(D)	(D)	(D)	(1)	(1)	(1)	(1)	(1)	(1)
25	Furniture and fixtures.....	(D)	(D)	(D)	(D)	(D)	(D)	(1)	(1)	(1)
26	Pulp, paper and products.....	...	...	...	(D)	(D)	(D)	(D)	(D)	(D)
27	Printing and publishing.....	(1)	(1)	(1)	573	(1)	(1)	1,580	(1)	1,312
28	Chemicals and products.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
29	Petroleum and coal products.....	(D)	(D)	(D)	...	...	...	(D)	(D)	(D)
30	Rubber products.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
31	Leather and leather products.....	...	...	...	...	...	...	(D)	(D)	(D)
32	Stone, clay, and glass products..	(1)	(1)	(1)	(1)	(1)	(1)	907	(1)	734
33	Primary metal products.....	(D)	(D)	(D)	...	...	...	(1)	(1)	(1)
34	Fabricated metal products.....	(1)	(1)	(1)	(1)	(1)	(1)	2,525	(1)	2,416
35	Machinery, except electrical.....	(1)	(1)	(1)	(1)	(1)	(1)	1,410	(1)	1,085
36	Electrical machinery.....	...	...	...	...	...	...	(1)	(1)	(1)
37	Transportation equipment.....	(D)	(D)	(D)	(D)	(D)	(D)	(1)	(1)	(1)
38	Instruments and related products.	...	...	...	...	...	...	(D)	(D)	(D)
39	Miscellaneous manufactures ²	(1)	(1)	(1)	(1)	(1)	(1)	1,051	(1)	736
		Kansas			South Atlantic Division			Delaware		
	Total.....	53,017	25,158	27,859	789,323	223,003	566,320	23,375	5,750	17,625
20	Food and kindred products.....	10,085	3,687	6,398	92,193	27,704	64,489	4,489	1,416	3,073
21	Tobacco manufactures.....	...	...	...	17,617	1,811	15,806	(D)	(D)	(D)
22	Textile mill products.....	(D)	(D)	(D)	120,074	27,891	92,183	(1)	(1)	(1)
23	Apparel and related products.....	(1)	(1)	(1)	12,734	3,688	9,046	616	(1)	513
24	Lumber and wood products.....	(1)	(1)	(1)	26,940	6,436	20,504	(1)	(1)	(1)
25	Furniture and fixtures.....	(1)	(1)	(1)	10,173	3,731	6,442	(D)	(D)	(D)
26	Pulp, paper and products.....	958	(1)	873	135,555	29,352	106,203	(1)	(1)	(1)
27	Printing and publishing.....	2,755	1,156	1,599	17,703	5,386	12,317	(1)	(1)	(1)
28	Chemicals and products.....	17,050	9,181	7,869	149,155	39,206	109,949	9,787	2,105	7,682
29	Petroleum and coal products.....	7,130	5,377	1,753	23,211	17,531	5,680	(1)	(1)	(1)
30	Rubber products.....	(D)	(D)	(D)	3,487	(D)	2,777	(D)	(D)	(D)
31	Leather and leather products.....	(1)	(1)	(1)	2,257	1,020	1,237	(1)	(1)	(1)
32	Stone, clay, and glass products..	4,649	1,848	2,801	28,511	9,347	19,164	(1)	(1)	(1)
33	Primary metal products.....	(1)	(1)	(1)	47,722	12,020	35,702	3,161	690	2,471
34	Fabricated metal products.....	1,307	(1)	814	20,281	4,585	15,696	(1)	(1)	(1)
35	Machinery, except electrical.....	3,404	1,497	1,907	17,528	5,203	12,325	1,050	(1)	759
36	Electrical machinery.....	(D)	(D)	(D)	32,606	16,925	15,681	(1)	(1)	(1)
37	Transportation equipment.....	(D)	(D)	(D)	22,974	7,055	15,919	(D)	(D)	(D)
38	Instruments and related products.	(1)	(1)	(1)	956	(1)	567	(D)	(D)	(D)
39	Miscellaneous manufactures ²	841	720	(1)	7,637	3,004	4,633	(D)	(D)	(D)

See footnotes at end of table.

EXPENDITURES FOR PLANT AND EQUIPMENT

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Table 6.—MANUFACTURERS' EXPENDITURES FOR NEW PLANT AND EQUIPMENT, FOR ESTABLISHMENTS IN OPERATION,
BY DIVISIONS AND STATES BY MAJOR INDUSTRY GROUP: 1954—Continued

(In thousands of dollars. For explanation of column captions see Introduction)

Code	Major industry group	Total ex- penditures	New struc- tures and additions to plant	New ma- chinery and equipment	Total ex- penditures	New struc- tures and additions to plant	New ma- chinery and equipment	Total ex- penditures	New struc- tures and additions to plant	New ma- chinery and equipment
		Maryland			District of Columbia			Virginia		
	Total.....	93,908	34,873	59,035	6,536	1,586	4,950	109,887	34,128	75,759
20	Food and kindred products.....	16,039	5,389	10,650	3,460	805	2,655	12,167	4,006	8,161
21	Tobacco manufactures.....	(D)	(D)	(D)	...	...	...	5,044	517	4,527
22	Textile mill products.....	594	(1)	(1)	...	...	...	10,315	2,779	7,536
23	Apparel and related products.....	1,485	(1)	1,112	(1)	(1)	(1)	1,149	619	530
24	Lumber and wood products.....	1,252	(1)	889	(1)	(1)	(1)	4,540	886	3,654
25	Furniture and fixtures.....	706	(1)	533	(1)	(1)	(1)	2,284	539	1,745
26	Pulp, paper and products.....	5,242	1,041	4,201	(D)	(D)	(D)	18,070	3,161	14,909
27	Printing and publishing.....	3,189	579	2,610	2,252	(1)	1,841	2,758	1,122	1,636
28	Chemicals and products.....	8,978	1,284	7,694	(1)	(1)	(1)	33,796	12,858	20,938
29	Petroleum and coal products.....	16,599	14,486	2,113	...	...	...	(D)	(D)	(D)
30	Rubber products.....	1,793	(1)	1,622	...	...	...	595	(1)	(1)
31	Leather and leather products.....	(1)	(1)	(1)	...	...	...	1,549	738	811
32	Stone, clay, and glass products..	3,107	1,145	1,962	(1)	(1)	(1)	3,102	1,082	2,020
33	Primary metal products.....	8,648	3,437	5,211	...	...	...	1,826	(1)	1,547
34	Fabricated metal products.....	5,820	1,408	4,412	(D)	(D)	(D)	1,354	(1)	1,297
35	Machinery, except electrical.....	4,061	(1)	3,646	(1)	(1)	(1)	5,331	2,688	2,643
36	Electrical machinery.....	2,772	(1)	2,529	(1)	(1)	(1)	(D)	(D)	(D)
37	Transportation equipment.....	10,170	2,813	7,357	...	...	...	2,350	(1)	1,951
38	Instruments and related products.	(1)	(1)	(1)	...	...	...	(1)	(1)	(1)
39	Miscellaneous manufactures ²	(D)	(D)	(D)	(1)	(1)	(1)	528	(1)	(1)
		West Virginia			North Carolina			South Carolina		
	Total.....	98,883	27,243	71,640	129,622	36,845	92,777	59,629	12,933	46,696
20	Food and kindred products.....	4,082	1,097	2,985	10,250	3,253	6,997	6,662	2,336	4,326
21	Tobacco manufactures.....	(1)	(1)	(1)	11,497	1,195	10,302	(1)	(1)	(1)
22	Textile mill products.....	(1)	(1)	(1)	43,538	8,519	35,019	34,217	6,850	27,367
23	Apparel and related products.....	(1)	(1)	(1)	2,341	981	1,360	2,239	577	1,662
24	Lumber and wood products.....	2,336	836	1,500	5,878	1,442	4,436	2,859	(1)	2,388
25	Furniture and fixtures.....	(1)	(1)	(1)	4,284	1,901	2,383	(1)	(1)	(1)
26	Pulp, paper and products.....	(D)	(D)	(D)	7,433	926	6,507	4,994	769	4,225
27	Printing and publishing.....	1,049	564	(1)	1,772	533	1,239	763	(1)	573
28	Chemicals and products.....	43,722	11,911	31,811	10,201	2,068	8,133	(D)	(D)	(D)
29	Petroleum and coal products.....	5,105	2,540	2,565	(1)	(1)	(1)	(1)	(1)	(1)
30	Rubber products.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
31	Leather and leather products.....	(1)	(1)	(1)	(1)	(1)	(1)	(D)	(D)	(D)
32	Stone, clay, and glass products..	4,357	1,478	2,879	3,619	1,820	1,799	1,838	(1)	1,407
33	Primary metal products.....	32,085	6,941	25,144	946	(1)	(1)	(1)	(1)	(1)
34	Fabricated metal products.....	2,663	938	1,725	2,443	800	1,643	(D)	(D)	(D)
35	Machinery, except electrical.....	919	551	(1)	2,046	(1)	1,577	777	(1)	750
36	Electrical machinery.....	852	(1)	794	19,868	11,180	8,688	(D)	(1)	(1)
37	Transportation equipment.....	554	(1)	(1)	(D)	(D)	(D)	(1)	(1)	(1)
38	Instruments and related products.	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
39	Miscellaneous manufactures ²	(1)	(1)	(1)	(D)	(D)	(D)	(D)	(D)	(D)
		Georgia			Florida			East South Central Division		
	Total.....	162,849	43,480	119,369	104,631	26,162	78,469	395,995	105,313	290,682
20	Food and kindred products.....	15,664	3,083	12,581	19,376	6,315	13,061	34,972	9,620	25,352
21	Tobacco manufactures.....	(D)	(D)	(D)	753	(1)	747	7,595	2,566	5,029
22	Textile mill products.....	30,294	9,354	20,940	(1)	(1)	(1)	17,396	2,664	14,732
23	Apparel and related products.....	4,128	898	3,230	595	(1)	(1)	5,230	1,372	3,858
24	Lumber and wood products.....	5,812	1,614	4,198	4,103	776	3,327	13,567	3,524	10,043
25	Furniture and fixtures.....	971	(1)	614	1,414	704	710	3,417	1,345	2,072
26	Pulp, paper and products.....	73,377	16,924	56,453	25,260	6,213	19,047	40,121	13,250	26,871
27	Printing and publishing.....	2,216	590	1,626	3,490	1,332	7,378	7,378	1,652	5,726
28	Chemicals and products.....	5,912	1,264	4,648	(D)	(D)	(D)	72,194	14,857	57,337
29	Petroleum and coal products.....	(1)	(1)	(1)	663	(1)	(1)	8,555	1,851	6,704
30	Rubber products.....	(1)	(1)	(1)	(1)	(1)	(1)	6,790	(1)	6,326
31	Leather and leather products.....	(1)	(1)	(1)	(1)	(1)	(1)	714	(1)	533
32	Stone, clay, and glass products..	6,513	1,813	4,700	5,495	1,409	4,086	14,191	4,913	9,278
33	Primary metal products.....	(1)	(1)	(1)	(1)	(1)	(1)	63,251	18,802	44,449
34	Fabricated metal products.....	1,116	(1)	709	6,178	812	5,366	17,609	3,685	13,924
35	Machinery, except electrical.....	2,394	699	1,695	925	(1)	868	61,564	18,443	43,121
36	Electrical machinery.....	5,783	3,489	2,294	(1)	(1)	(1)	8,620	2,189	6,431
37	Transportation equipment.....	6,948	2,637	4,311	1,221	683	538	3,985	1,341	2,644
38	Instruments and related products.	...	...	...	(1)	(1)	(1)	632	(1)	591
39	Miscellaneous manufactures ²	(D)	(D)	(D)	(D)	(D)	(D)	8,204	2,543	5,661

See footnotes at end of table.

MANUFACTURES—SUMMARY STATISTICS

Table 6.—MANUFACTURERS' EXPENDITURES FOR NEW PLANT AND EQUIPMENT, FOR ESTABLISHMENTS IN OPERATION, BY DIVISIONS AND STATES BY MAJOR INDUSTRY GROUP: 1954—Continued

(In thousands of dollars. For explanation of column captions see Introduction)

Code	Major industry group	Total expenditures	New structures and additions to plant	New machinery and equipment	Total expenditures	New structures and additions to plant	New machinery and equipment	Total expenditures	New structures and additions to plant	New machinery and equipment
		Kentucky			Tennessee			Alabama		
	Total.....	124,037	30,921	93,116	152,698	41,169	111,529	82,248	21,673	60,575
20	Food and kindred products.....	11,035	2,140	8,895	13,242	4,808	8,434	6,208	1,742	4,466
21	Tobacco manufactures.....	7,044	2,435	4,609	(D)	(D)	(D)	(D)	(D)	(D)
22	Textile mill products.....	798	(1)	742	6,684	1,235	5,449	7,294	1,251	6,043
23	Apparel and related products.....	901	(1)	707	1,367	(1)	1,035	1,717	600	1,117
24	Lumber and wood products.....	1,335	(1)	999	3,715	1,059	2,656	5,366	1,423	3,943
25	Furniture and fixtures.....	1,036	516	520	1,287	(1)	870	(1)	(1)	(1)
26	Pulp, paper and products.....	1,326	748	578	27,497	10,655	16,842	6,663	1,496	5,167
27	Printing and publishing.....	2,001	(1)	1,616	3,286	1,053	2,233	1,664	(1)	1,534
28	Chemicals and products.....	12,605	2,226	10,379	(D)	(D)	(D)	7,496	1,388	6,108
29	Petroleum and coal products.....	2,454	1,158	1,296	(1)	(1)	(1)	5,736	(1)	5,275
30	Rubber products.....	(D)	(D)	(D)	3,385	(1)	3,308	2,744	(1)	2,369
31	Leather and leather products.....	(1)	(1)	(1)	604	(1)	(1)	(D)	(D)	(D)
32	Stone, clay, and glass products..	2,417	562	1,855	4,104	1,658	2,446	5,837	2,283	3,554
33	Primary metal products.....	16,811	2,227	14,584	23,527	7,468	16,059	21,112	7,659	13,453
34	Fabricated metal products.....	4,690	1,566	3,124	7,892	973	6,919	3,542	966	2,576
35	Machinery, except electrical.....	54,340	15,520	38,820	3,249	1,254	1,995	3,126	946	2,180
36	Electrical machinery.....	2,719	(1)	2,443	2,719	565	2,154	1,901	(1)	1,480
37	Transportation equipment.....	(1)	(1)	(1)	1,927	(1)	1,729	627	(1)	(1)
38	Instruments and related products.	(1)	(1)	(1)	(1)	(1)	(1)	(D)	(D)	(D)
39	Miscellaneous manufactures ²	(D)	(D)	(D)	(D)	(D)	(D)	631	(1)	540
		Mississippi			West South Central Division			Arkansas		
	Total.....	37,008	11,546	25,462	721,066	260,617	460,449	42,715	16,568	26,147
20	Food and kindred products.....	4,486	929	3,557	54,713	15,122	39,591	5,646	1,700	3,946
21	Tobacco manufactures.....	...	...	...	(1)	...	(1)	...	...	...
22	Textile mill products.....	2,618	(1)	2,498	3,669	684	2,985	(1)	(1)	(1)
23	Apparel and related products.....	1,240	(1)	999	3,398	1,402	1,996	(1)	(1)	(1)
24	Lumber and wood products.....	3,150	705	2,445	17,524	6,586	10,938	7,376	3,600	3,776
25	Furniture and fixtures.....	808	(1)	(1)	3,660	1,482	2,178	1,048	561	(1)
26	Pulp, paper and products.....	4,634	(1)	4,284	23,285	3,891	19,394	3,805	1,054	2,751
27	Printing and publishing.....	(1)	(1)	(1)	11,872	3,202	8,670	594	(1)	(1)
28	Chemicals and products.....	(D)	(D)	(D)	236,690	41,854	194,836	14,272	6,416	7,856
29	Petroleum and coal products.....	(1)	(1)	(1)	239,131	136,509	102,622	3,395	1,030	2,365
30	Rubber products.....	(D)	(D)	(D)	3,264	(1)	2,793	(D)	(D)	(D)
31	Leather and leather products.....	(D)	(D)	(D)	(1)	(1)	(1)	(1)	(1)	(1)
32	Stone, clay, and glass products..	1,832	(1)	1,423	18,793	7,028	11,765	1,363	647	716
33	Primary metal products.....	1,800	1,447	(1)	31,634	8,739	22,895	839	(1)	703
34	Fabricated metal products.....	1,484	(1)	1,305	13,596	3,921	9,675	979	(1)	888
35	Machinery, except electrical.....	848	722	(1)	22,455	15,517	6,938	(1)	(1)	(1)
36	Electrical machinery.....	1,280	926	(1)	2,856	546	2,310	1,058	(1)	810
37	Transportation equipment.....	1,036	739	(1)	19,633	11,178	8,455	(1)	(1)	(1)
38	Instruments and related products.	(D)	(D)	(D)	1,049	(1)	880	(D)	(D)	(D)
39	Miscellaneous manufactures ²	(1)	(1)	(1)	13,323	2,206	11,117	(D)	(D)	(D)
		Louisiana			Oklahoma			Texas		
	Total.....	174,396	48,037	126,359	51,740	18,857	32,883	452,214	177,154	275,060
20	Food and kindred products.....	14,007	3,614	10,393	6,145	2,104	4,041	28,914	7,703	21,211
21	Tobacco manufactures.....	(D)	(D)	(D)	...	...	...	(D)	(D)	(D)
22	Textile mill products.....	(D)	(D)	(D)	(D)	(D)	(D)	2,870	556	2,314
23	Apparel and related products.....	1,190	703	(1)	(1)	(1)	(1)	1,891	612	1,279
24	Lumber and wood products.....	4,028	1,087	2,941	(1)	(1)	(1)	5,788	1,787	4,001
25	Furniture and fixtures.....	(1)	(1)	(1)	(1)	(1)	(1)	2,087	742	1,345
26	Pulp, paper and products.....	11,334	1,901	9,433	846	(1)	691	7,298	779	6,519
27	Printing and publishing.....	1,395	(1)	941	1,442	(1)	1,193	8,440	2,397	6,043
28	Chemicals and products.....	67,476	8,115	59,361	13,765	2,608	11,157	141,176	24,714	116,462
29	Petroleum and coal products.....	58,444	28,243	30,201	17,616	9,734	7,882	159,674	97,500	62,174
30	Rubber products.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
31	Leather and leather products.....	...	...	...	(1)	(1)	(1)	(1)	(1)	(1)
32	Stone, clay, and glass products..	3,291	1,161	2,130	3,312	904	2,408	10,826	4,315	6,511
33	Primary metal products.....	2,460	(1)	1,987	1,090	(1)	745	27,244	7,784	19,460
34	Fabricated metal products.....	2,447	614	1,833	1,516	603	913	8,653	2,612	6,041
35	Machinery, except electrical.....	531	(1)	(1)	3,057	1,534	1,523	18,621	13,760	4,861
36	Electrical machinery.....	(D)	(D)	(D)	(1)	(1)	(1)	1,407	(1)	1,225
37	Transportation equipment.....	1,954	754	1,200	(1)	(1)	(1)	17,094	10,188	6,906
38	Instruments and related products.	(1)	(1)	(1)	(1)	(1)	(1)	881	(1)	733
39	Miscellaneous manufactures ²	(D)	(D)	(D)	(1)	(1)	(1)	6,702	838	5,864

See footnotes at end of table.

EXPENDITURES FOR PLANT AND EQUIPMENT

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Table 6.—MANUFACTURERS' EXPENDITURES FOR NEW PLANT AND EQUIPMENT, FOR ESTABLISHMENTS IN OPERATION, BY DIVISIONS AND STATES BY MAJOR INDUSTRY GROUP: 1954—Continued

(In thousands of dollars. For explanation of column captions see Introduction)

Code	Major industry group	Total expenditures	New structures and additions to plant	New machinery and equipment	Total expenditures	New structures and additions to plant	New machinery and equipment	Total expenditures	New structures and additions to plant	New machinery and equipment
		Mountain Division			Montana			Idaho		
	Total.....	126,844	40,054	86,790	20,574	9,360	11,214	20,627	5,105	15,522
20	Food and kindred products.....	24,835	7,177	17,658	1,835	508	1,327	5,020	1,041	3,979
21	Tobacco manufactures.....	...	...	...	...	...	...	...	...	...
22	Textile mill products.....	(1)	(1)	(1)	...	...	...	...	...	...
23	Apparel and related products.....	(1)	(1)	(1)	...	...	...	(D)	(D)	(D)
24	Lumber and wood products.....	19,712	5,988	13,724	6,727	1,929	4,798	5,726	1,437	5,289
25	Furniture and fixtures.....	(1)	(1)	(1)	(D)	(D)	(D)	(D)	(D)	(D)
26	Pulp, paper and products.....	2,928	638	2,290	(D)	(D)	(D)	(D)	(D)	(D)
27	Printing and publishing.....	6,137	1,918	4,219	(1)	(1)	(1)	(1)	(1)	(1)
28	Chemicals and products.....	11,967	1,932	10,035	1,306	(1)	1,043	4,213	543	3,670
29	Petroleum and coal products.....	21,542	11,988	9,554	(D)	(D)	(D)	...	...	...
30	Rubber products.....	3,642	(1)	3,159	...	...	...	...	...	...
31	Leather and leather products.....	613	(1)	(1)	(D)	(D)	(D)	(D)	(D)	(D)
32	Stone, clay, and glass products..	5,808	2,039	3,769	(1)	(1)	(1)	(1)	(1)	(1)
33	Primary metal products.....	18,822	4,079	14,743	(D)	(D)	(D)	(D)	(D)	(D)
34	Fabricated metal products.....	3,132	834	2,298	(1)	(1)	(1)	(1)	(1)	(1)
35	Machinery, except electrical.....	2,968	1,415	1,553	(1)	(1)	(1)	(1)	(1)	(1)
36	Electrical machinery.....	(1)	(1)	(1)	...	...	...	(D)	(D)	(D)
37	Transportation equipment.....	1,023	(1)	885	(1)	(1)	(1)	(1)	(1)	(1)
38	Instruments and related products.	(1)	(1)	(1)	(1)	(1)	(1)	(D)	(D)	(D)
39	Miscellaneous manufactures ²	2,351	632	1,719	(D)	(D)	(D)	(1)	(1)	(1)
		Wyoming			Colorado			New Mexico		
	Total.....	6,899	5,285	1,614	30,121	7,866	22,255	6,585	1,989	4,596
20	Food and kindred products.....	629	(1)	500	8,619	2,713	5,906	1,481	(1)	1,048
21	Tobacco manufactures.....	...	...	...	...	...	...	...	...	...
22	Textile mill products.....	(D)	(D)	(D)	(D)	(D)	(D)	...	...	...
23	Apparel and related products.....	(D)	(D)	(D)	(1)	(1)	(1)	(D)	(D)	(D)
24	Lumber and wood products.....	(1)	(1)	(1)	1,953	(1)	1,585	1,152	(1)	970
25	Furniture and fixtures.....	(D)	(D)	(D)	(1)	(1)	(1)	(1)	(1)	(1)
26	Pulp, paper and products.....	(D)	(D)	(D)	952	(1)	...	...	...	...
27	Printing and publishing.....	(1)	(1)	(1)	2,411	(1)	1,952	1,010	700	(1)
28	Chemicals and products.....	(D)	(D)	(D)	2,817	(1)	2,441	533	(1)	(1)
29	Petroleum and coal products.....	5,371	4,848	523	732	(1)	(1)	599	(1)	(1)
30	Rubber products.....	...	...	...	(D)	(D)	(D)	...	...	...
31	Leather and leather products.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
32	Stone, clay, and glass products..	(1)	(1)	(1)	1,763	738	1,025	(1)	(1)	(1)
33	Primary metal products.....	...	...	...	2,746	(1)	2,660	(D)	(D)	(D)
34	Fabricated metal products.....	(D)	(D)	(D)	1,232	(1)	877	(1)	(1)	(1)
35	Machinery, except electrical.....	(D)	(D)	(D)	1,439	660	779	(D)	(D)	(D)
36	Electrical machinery.....	(D)	(D)	(D)	(1)	(1)	(1)	(D)	(D)	(D)
37	Transportation equipment.....	(D)	(D)	(D)	(1)	(1)	(1)	(D)	(D)	(D)
38	Instruments and related products.	(D)	(D)	(D)	(1)	(1)	(1)	(D)	(D)	(D)
39	Miscellaneous manufactures ²	(D)	(D)	(D)	(D)	(D)	(D)	1,292	(1)	1,042
		Arizona			Utah			Nevada		
	Total.....	13,800	5,055	8,745	23,385	4,579	18,806	4,850	812	4,038
20	Food and kindred products.....	2,674	1,017	1,657	3,825	1,132	2,693	748	(1)	543
21	Tobacco manufactures.....	...	...	...	...	...	...	...	...	...
22	Textile mill products.....	...	...	...	(1)	...	(1)	...	...	...
23	Apparel and related products.....	(1)	(1)	(1)	(1)	(1)	(1)	(D)	(D)	(D)
24	Lumber and wood products.....	2,508	1,944	564	(1)	(1)	(1)	(1)	(1)	(1)
25	Furniture and fixtures.....	(1)	(1)	(1)	(1)	(1)	(1)	(D)	(D)	(D)
26	Pulp, paper and products.....	(D)	(D)	(D)	(D)	(D)	(D)	...	...	...
27	Printing and publishing.....	1,274	517	757	(1)	(1)	(1)	(1)	(1)	(1)
28	Chemicals and products.....	923	(1)	788	(D)	(D)	(D)	(D)	(D)	(D)
29	Petroleum and coal products.....	(D)	(D)	(D)	7,836	1,007	6,829	...	...	...
30	Rubber products.....	(D)	(D)	(D)	(D)	(D)	(D)	...	...	...
31	Leather and leather products.....	(D)	(D)	(D)	(D)	(D)	(D)	...	...	...
32	Stone, clay, and glass products..	1,275	(1)	1,156	848	(1)	(1)	855	(1)	(1)
33	Primary metal products.....	2,904	992	1,912	6,182	530	5,652	2,294	(1)	2,254
34	Fabricated metal products.....	(1)	(1)	(1)	1,010	(1)	820	(D)	(D)	(D)
35	Machinery, except electrical.....	622	(1)	590	599	547	(1)	(D)	(D)	(D)
36	Electrical machinery.....	...	...	1	(1)	(1)	(1)	(D)	(D)	(D)
37	Transportation equipment.....	840	(1)	729	(D)	(D)	(D)	(D)	(D)	(D)
38	Instruments and related products.	(D)	(D)	(D)	6	3	3	(D)	(D)	(D)
39	Miscellaneous manufactures ²	(1)	(1)	(1)	(1)	(1)	(1)	(D)	(D)	(D)

See footnotes at end of table.

MANUFACTURES—SUMMARY STATISTICS

Table 6.—MANUFACTURERS' EXPENDITURES FOR NEW PLANT AND EQUIPMENT, FOR ESTABLISHMENTS IN OPERATION, BY DIVISIONS AND STATES BY MAJOR INDUSTRY GROUP: 1954—Continued

(In thousands of dollars. For explanation of column captions see Introduction)

Code	Major industry group	Total expenditures	New structures and additions to plant	New machinery and equipment	Total expenditures	New structures and additions to plant	New machinery and equipment	Total expenditures	New structures and additions to plant	New machinery and equipment
		Pacific Division			Washington			Oregon		
	Total.....	764,743	244,386	520,357	147,130	44,830	102,300	67,811	15,813	51,998
20	Food and kindred products.....	127,495	46,806	80,689	13,609	5,107	8,502	6,663	1,743	4,920
21	Tobacco manufactures.....	(1)	(1)	(1)	...	...	...	...	...	...
22	Textile mill products.....	2,773	(1)	2,320	(1)	(1)	(1)	661	(1)	563
23	Apparel and related products.....	5,592	2,033	3,559	612	(1)	(1)	(1)	(1)	(1)
24	Lumber and wood products.....	100,080	25,277	74,803	22,851	6,149	16,702	43,451	10,091	33,360
25	Furniture and fixtures.....	4,449	1,484	2,965	(1)	(1)	(1)	(1)	(1)	(1)
26	Pulp, paper and products.....	79,003	28,488	50,515	52,879	21,681	31,198	7,801	1,391	6,410
27	Printing and publishing.....	17,942	3,264	14,678	2,333	(1)	2,093	1,017	(1)	662
28	Chemicals and products.....	32,055	7,235	24,820	3,102	758	2,344	1,253	(1)	892
29	Petroleum and coal products.....	132,022	58,897	73,125	24,695	2,705	21,990	(1)	(1)	(1)
30	Rubber products.....	14,668	2,678	11,990	(D)	(D)	(D)	(1)	(1)	(1)
31	Leather and leather products.....	1,849	671	1,178	(1)	(1)	(1)	(1)	(1)	(1)
32	Stone, clay, and glass products..	34,132	8,101	26,031	4,602	1,591	3,011	1,202	(1)	1,033
33	Primary metal products.....	39,949	10,192	29,757	9,826	2,296	7,530	(1)	(1)	(1)
34	Fabricated metal products.....	42,256	9,171	33,085	2,562	(1)	2,165	2,278	653	1,625
35	Machinery, except electrical.....	28,436	5,335	23,101	2,144	810	1,334	882	(1)	658
36	Electrical machinery.....	20,273	6,921	13,352	(1)	(1)	(1)	(1)	(1)	(1)
37	Transportation equipment.....	61,767	20,341	41,426	5,987	2,392	3,595	(1)	(1)	(1)
38	Instruments and related products.	8,948	4,378	4,571	(1)	(1)	(1)	(1)	(1)	(1)
39	Miscellaneous manufactures ²	10,997	2,651	8,346	(D)	(D)	(D)	(1)	(1)	(1)
		California								
	Total.....	549,801	183,742	366,059						
20	Food and kindred products.....	107,223	39,956	67,267						
21	Tobacco manufactures.....	(1)	(1)	(1)						
22	Textile mill products.....	1,989	(1)	1,663						
23	Apparel and related products.....	4,791	1,632	3,159						
24	Lumber and wood products.....	33,777	9,036	24,741						
25	Furniture and fixtures.....	3,737	1,240	2,497						
26	Pulp, paper and products.....	18,322	5,415	12,907						
27	Printing and publishing.....	14,592	2,669	11,923						
28	Chemicals and products.....	27,700	6,116	21,584						
29	Petroleum and coal products.....	106,980	56,092	50,888						
30	Rubber products.....	14,502	2,646	11,856						
31	Leather and leather products.....	1,788	663	1,125						
32	Stone, clay, and glass products..	28,327	6,340	21,987						
33	Primary metal products.....	29,755	7,816	21,939						
34	Fabricated metal products.....	37,416	8,121	29,295						
35	Machinery, except electrical.....	25,410	4,301	21,109						
36	Electrical machinery.....	19,764	6,774	12,990						
37	Transportation equipment.....	55,516	17,911	37,605						
38	Instruments and related products.	8,443	4,292	4,151						
39	Miscellaneous manufactures ²	9,711	2,384	7,327						

Note: Detailed figures may not add to totals because of independent rounding and for the reason indicated in footnote 1.

D Withheld to avoid disclosing figures for individual companies.

¹The figure is less than one half million dollars and is included in all totals.²Includes privately owned and/or operated establishments classified in Major Industry Group 19, Ordnance and Accessories. Establishments which are government-owned and government operated are not included.

Chapter VII.—Horsepower of Power Equipment

The following tables show the data on horsepower of power equipment collected in the 1954 Census of Manufactures. Table 1 shows the horsepower of power equipment used in manufacturing industries for selected Census years. Table 2 includes statistics on the horsepower of power equipment used by industry groups for 1954 and 1939 and by individual industries for 1954. Table 3 contains 1954 and 1939 data on the horsepower of power equipment by divisions and States. Table 4 gives horsepower information for two-digit major industry groups by States for 1954 only.

Because of a major revision in the industry classification system after the 1939 Census, 1939 data comparable to 1954 can be shown only at summary levels. Consequently, 1939 statistics are shown at the all-manufacturing level for two-digit major industry groups, and for States but not for four-digit industries.

There are some differences in the scope of the 1939 and 1954 horsepower inquiries as follows:

- (1) The 1954 inquiry excluded fractional horsepower motors which were called for in 1939.
- (2) Establishments classified in Major Group 23, Apparel and Related Products, with the exception of Industry Group 238, Miscellaneous Apparel, were not required to complete this inquiry in 1954; they were included in 1939. Similarly,

establishments classified in Industry Group 279, Printing Trades Service Industries, are included in the horsepower statistics for 1939 but not for 1954.

In addition to the differences in the scope of the inquiries for the two Census periods, certain reporting inconsistencies may have affected the comparability of the data. It was not possible to review the 1939 data in detail, however, for Industry 2097, Manufactured Ice, such a review resulted in a major change in the 1939 total for the industry. (This change was not carried to the State data because the State totals would be affected to a very minor degree. Consequently, the United States total in tables 3 and 4 does not agree by a small amount with the sum of the individual States.)

The statistics for selected industries or States might also be affected by (1) the possible inclusion in 1939 of some highway vehicle engine horsepower figures, and (2) the partial use of short forms in 1954 which did not include the horsepower inquiry.

In combination, the factors mentioned above probably resulted in the 1939 and 1954 figures not being directly comparable for certain industries and States, especially for those which are not important users of power equipment. For the important users and for the summary totals, it is believed that these factors are insignificant.

MANUFACTURES—SUMMARY STATISTICS

Table 1.—HORSEPOWER OF POWER EQUIPMENT USED IN MANUFACTURING INDUSTRIES: 1954 AND EARLIER YEARS

Census year	Aggregate horsepower (prime movers and electric motors driven by purchased energy) (1,000 hp)	Prime movers (1,000 hp)			Electric motors (1,000 hp)			Aggregate horsepower per 100 production workers
		Total	Driving generators	Not driving generators	Total	Driven by purchased energy	Driven by energy generated at estab- lishment	
1954.....	108,362	35,579	20,906	14,673	91,821	72,783	19,038	962
1939 ¹	49,893	21,077	13,849	7,228	44,827	28,816	16,011	652
1929.....	41,122	19,328	(NA)	(NA)	33,844	21,794	12,050	491
1927.....	....	....	....	....	....	....	....	473
1925.....	34,359	19,243	(NA)	(NA)	25,092	15,116	9,976	437
1919.....	28,397	19,432	(NA)	(NA)	15,612	8,965	6,647	333
1914.....	21,565	17,858	(NA)	(NA)	8,392	3,707	4,684	326
1909.....	18,062	16,393	(NA)	(NA)	4,582	1,669	2,913	288
1904.....	13,033	12,605	(NA)	(NA)	1,517	428	1,089	252
1899.....	9,811	9,633	(NA)	(NA)	475	178	297	218
1899 ²	10,988	10,805	(NA)	(NA)	494	183	311	207
1889.....	(NA)	5,939	(NA)	(NA)	15	(NA)	(NA)	140
1879.....	(NA)	3,410	(NA)	(NA)	(NA)	(NA)	(NA)	125
1869.....	(NA)	2,346	(NA)	(NA)	(NA)	(NA)	(NA)	114

NA Not available.

¹The data for 1939 include revisions due primarily to differences in scope of the 1939 and 1954 Censuses of Manufactures.²Includes data for hand trades and neighborhood industries.

Table 2.—HORSEPOWER OF POWER EQUIPMENT USED IN MANUFACTURING INDUSTRIES BY INDUSTRY GROUP, 1954 AND 1939, AND BY INDUSTRY, 1954

Code No.	Industry group and industry ¹	Aggregate horsepower (prime movers and electric motors driven by purchased energy) (1,000 hp)	Prime movers (1,000 hp)			Electric motors (1,000 hp)			Aggregate horsepower per 100 production workers
			Total	Driving generators	Not driving generators	Total	Driven by purchased energy	Driven by energy generated at estab- lishment	
	All industries, total.....1954..	108,362	35,579	20,906	14,673	91,821	72,783	19,038	962
	.....1939..	49,893	21,077	13,849	7,228	44,827	28,816	16,011	652
20	Food and kindred products.....1954..	7,503	1,721	1,014	707	6,672	5,782	890	659
	.....² 1939..	5,117	1,838	1,050	788	4,275	3,279	996	621
21	Tobacco manufactures.....1954..	256	90	75	15	193	166	27	295
	.....1939..	100	49	45	4	80	51	29	114
22	Textile mill products.....1954..	4,595	878	783	95	4,170	3,717	453	485
	.....1939..	3,670	1,441	1,279	162	3,184	2,229	955	337
23	Apparel and related products.... ³ 1954..	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
	.....1939..	244	24	22	2	231	220	11	33
24	Lumber and wood products.....1954..	5,151	2,453	991	1,462	3,240	2,698	542	885
	.....1939..	2,998	1,873	852	1,021	2,010	1,125	885	756
25	Furniture and fixtures.....1954..	949	99	79	20	924	850	74	331
	.....1939..	566	188	157	31	561	378	183	299
26	Pulp, paper and products.....1954..	8,256	4,239	3,529	710	7,859	4,017	3,842	1,895
	.....1939..	4,131	2,795	2,170	625	3,498	1,336	2,162	1,528
27	Printing and publishing..... ³ 1954..	975	45	34	11	930	930	...	211
	.....1939..	771	53	51	2	763	718	45	237
28	Chemicals and products.....1954..	14,329	6,658	3,671	2,987	10,388	7,671	2,717	2,859
	.....1939..	3,763	2,087	1,571	516	2,916	1,676	1,240	1,400
29	Petroleum and coal products.....1954..	7,479	5,002	1,313	3,689	3,855	2,477	1,378	4,566
	.....1939..	2,410	1,391	574	817	1,770	1,019	751	2,243
30	Rubber products.....1954..	1,848	322	259	63	1,822	1,526	296	942
	.....1939..	989	287	252	35	983	702	281	818
31	Leather and leather goods.....1954..	505	87	77	10	463	418	45	157
	.....1939..	461	151	127	24	418	310	108	140
32	Stone, clay, and glass products..1954..	4,811	1,199	792	417	4,357	3,612	745	1,168
	.....1939..	3,026	945	738	207	2,982	2,081	901	1,123
33	Primary metal industries.....1954..	24,482	9,740	6,371	3,369	21,495	14,742	6,753	2,605
	.....1939..	12,670	5,359	2,722	2,637	12,390	7,311	5,079	1,950
34	Fabricated metal products.....1954..	4,888	309	164	145	4,658	4,579	79	595
	.....1939..	1,740	627	551	76	1,423	1,113	310	430
35	Machinery, except electrical....1954..	7,306	684	496	188	7,008	6,622	386	624
	.....1939..	2,613	435	364	71	2,746	2,178	568	496
36	Electrical machinery.....1954..	2,521	302	233	69	2,371	2,219	152	349
	.....1939..	1,019	354	344	10	1,017	665	352	397
37	Transportation equipment.....1954..	9,041	1,347	796	551	8,130	7,694	436	681
	.....1939..	2,926	970	816	154	2,987	1,956	1,031	537
38	Instruments and related products.1954..	1,161	167	109	58	1,136	994	142	594
	.....1939..	165	81	59	22	122	84	38	277
39	Miscellaneous manufactures.....1954..	937	83	63	20	910	854	56	243
	.....1939..	514	129	105	24	471	385	86	210
19	Ordinance and accessories ⁴.....1954..	1,369	154	57	97	1,240	1,215	25	804

See footnotes at end of table.

Table 2.—HORSEPOWER OF POWER EQUIPMENT USED IN MANUFACTURING INDUSTRIES BY INDUSTRY GROUP, 1954 AND 1939, AND BY INDUSTRY, 1954—Continued

Code No.	Industry group and industry ¹	Aggregate horsepower (Prime movers and electric motors driven by purchased energy) (1,000 hp)	Prime movers (1,000 hp)			Electric motors (1,000 hp)			Aggregate horsepower per 100 production workers
			Total	Driving generators	Not driving generators	Total	Driven by purchased energy	Driven by energy generated at establishment	
1954									
20	Food and kindred products.....	7,503	1,721	1,014	707	6,672	5,782	890	659
201	Meat products.....	1,093	222	101	121	934	871	63	450
2011	Meat packing plants.....	897	210	98	112	749	687	62	535
2013	Prepared meats.....	130	10	2	8	121	120	1	386
2015	Poultry dressing plants.....	66	2	1	1	64	64	(⁵)	159
202	Dairy products.....	1,110	143	70	73	997	967	30	725
2021	Creamery butter.....	100	15	5	10	88	85	3	667
2022	Natural cheese.....	46	5	1	4	41	41	(⁵)	407
2023	Concentrated milk.....	128	58	35	23	93	70	23	1,174
2024	Ice cream and ices.....	222	9	5	4	213	213	(⁵)	1,062
2025	Special dairy products.....	33	5	3	2	29	28	1	569
2026	Fluid milk only.....	25	3	1	2	22	22	(⁵)	278
2027	Fluid milk and other products.....	556	48	20	28	511	508	3	696
203	Canned and frozen foods.....	826	167	41	126	675	658	17	471
2031	Canned seafood.....	46	11	2	9	35	35	(⁵)	326
2032	Cured fish.....	3	(⁵)	...	(⁵)	3	3	...	214
2033	Canned fruits and vegetables.....	500	106	25	81	408	395	13	473
2034	Dehydrated fruits and vegetables.....	30	4	1	3	26	26	...	492
2035	Pickles and sauces.....	63	9	1	8	53	53	(⁵)	346
2036	Packaged seafood.....	18	3	1	2	15	15	...	161
2037	Frozen fruits and vegetables.....	166	34	11	23	135	131	4	892
204	Grain mill products.....	1,256	115	62	53	1,177	1,141	36	1,584
2041	Flour and meal.....	394	38	26	12	368	356	12	1,841
2042	Prepared animal feeds.....	692	56	23	33	639	636	3	1,680
2043	Cereal breakfast foods.....	87	8	8	(⁵)	99	79	20	956
2044	Rice milling.....	58	12	5	7	47	46	1	1,871
2045	Flour mixes.....	25	1	(⁵)	1	24	24	(⁵)	581
205	Bakery products.....	481	17	9	8	465	464	1	269
2051	Bread and related products	394	10	7	3	384	384	(⁵)	275
2052	Biscuit and crackers.....	87	7	2	5	81	80	1	244
206	Sugar.....	465	428	293	135	366	37	329	1,860
2061	Raw cane sugar.....	103	97	33	64	27	6	21	3,815
2062	Cane-sugar refining.....	136	129	109	20	136	7	129	1,054
2063	Beet sugar.....	226	202	151	51	203	24	179	2,404
207	Candy and related products.....	319	72	57	15	300	248	52	484
2071	Confectionery products.....	203	21	14	7	192	182	10	368
2072	Chocolate and cocoa products.....	99	46	41	5	95	54	41	1,500
2073	Chewing gum.....	17	5	2	3	13	12	1	425
208	Beverages.....	849	240	160	80	715	609	106	715
2081	Bottled soft drinks.....	148	8	3	5	140	140	(⁵)	357
2082	Beer and ale.....	446	174	122	52	336	272	64	832
2083	Malt.....	83	16	14	2	86	67	19	4,150
2084	Wines and brandy.....	38	2	(⁵)	2	36	36	...	884
2085	Distilled liquor.....	134	40	21	19	117	94	23	784
209	Miscellaneous foods.....	1,104	317	221	96	1,043	787	256	1,120
2091	Leavening compounds.....	63	35	16	19	38	28	10	3,316
2092	Shortening and cooking oils.....	111	21	12	9	114	90	24	1,657
2093	Margarine.....	17	2	(⁵)	2	15	15	...	944
2094	Corn wet milling.....	221	194	176	18	241	27	214	2,105
2095	Flavorings.....	36	6	3	3	33	30	3	554
2097	Manufactured ice.....	452	45	12	33	410	407	3	3,531
2098	Macaroni and spaghetti.....	27	(⁵)	(⁵)	(⁵)	27	27	(⁵)	519
2099	Food preparations, n.e.c.....	177	14	2	12	165	163	2	336
21	Tobacco manufactures.....	256	90	75	15	193	166	27	295
2111	Cigarettes.....	144	72	66	6	96	72	24	522
2121	Cigars.....	20	...	...	...	20	20	...	56
2131	Chewing and smoking tobacco.....	27	6	5	1	24	21	3	438
2141	Tobacco stemming and redrying.....	65	12	4	8	53	53	...	387
22	Textile mill products.....	4,595	878	783	95	4,170	3,717	453	485
221	Woolen and worsted manufactures.....	516	180	166	14	410	336	74	629
2211	Scouring and combing plants.....	44	15	13	2	36	29	7	698
2212	Yarn mills, wool, except carpet.....	85	4	3	1	84	81	3	515
2213	Woolen and worsted fabrics.....	353	140	132	8	267	213	54	634
2216	Finishing wool textiles.....	34	21	18	3	23	13	10	971
222	Yarn and thread mills.....	713	42	38	4	690	671	19	686
2222	Yarn throwing mills.....	64	3	1	2	62	61	1	593
2223	Thread mills.....	66	15	14	1	59	51	8	541
2224	Yarn mills, cotton system.....	583	24	23	1	569	559	10	721
223	Broad-woven fabrics.....	1,994	363	333	30	1,794	1,631	163	548
2233	Cotton broad-woven fabrics.....	1,536	298	277	21	1,371	1,238	133	548
2234	Synthetic broad-woven fabrics.....	458	65	56	9	423	393	30	551
2241	Narrow fabric mills.....	56	3	3	(⁵)	55	53	2	246

See footnotes at end of table.

Table 2.—HORSEPOWER OF POWER EQUIPMENT USED IN MANUFACTURING INDUSTRIES BY INDUSTRY GROUP, 1954 AND 1939, AND BY INDUSTRY, 1954—Continued

Code No.	Industry group and industry ¹	Aggregate horsepower (Prime movers and electric motors driven by purchased energy) (1,000 hp)	Prime movers (1,000 hp)			Electric motors (1,000 hp)			Aggregate horsepower per 100 production workers
			Total	Driving generators	Not driving generators	Total	Driven by purchased energy	Driven by energy generated at establishment	
22	Textile mill products—Continued								
225	Knitting mills.....	260	25	15	10	237	235	2	129
2251	Full-fashioned hosiery mills.....	92	6	3	3	86	86	(⁵)	167
2252	Seamless hosiery mills.....	46	3	1	2	43	43	(⁵)	77
2253	Knit outerwear mills.....	25	2	2	(⁵)	23	23	...	60
2254	Knit underwear mills.....	33	5	2	3	29	28	1	117
2255	Knit glove mills.....	1	...	...	...	1	1	...	55
2256	Knit fabric mills.....	62	9	7	2	54	53	1	425
2259	Knitting mills, n.e.c.....	1	(⁵)	(⁵)	(⁵)	1	1	...	91
2261	Finishing textiles, except wool....	391	150	132	18	365	241	124	572
227	Carpet and rugs.....	255	66	58	8	242	189	53	583
2271	Wool carpets and rugs.....	134	49	45	4	121	85	36	530
2273	Carpets and rugs, except wool.....	28	4	1	3	24	24	(⁵)	277
2274	Hard-surfaced floor coverings.....	93	13	12	1	97	80	17	1,134
228	Hats, except cloth and millinery....	39	10	8	2	31	29	2	348
2281	Fur-felt hats and hat bodies.....	30	6	4	2	26	24	2	428
2282	Wool-felt hats and hat bodies.....	5	3	3	(⁵)	2	2	...	333
2283	Straw hats.....	1	(⁵)	(⁵)	...	1	1	...	53
2284	Hatter's fur.....	3	1	1	(⁵)	2	2	(⁵)	500
229	Miscellaneous textile goods.....	371	39	30	9	346	332	14	751
2291	Felt goods, n.e.c.....	38	2	1	1	37	36	1	745
2292	Lace goods.....	16	5	4	1	12	11	1	246
2293	Paddings and upholstery filling.....	45	2	2	(⁵)	45	43	2	584
2294	Processed textile waste.....	35	2	(⁵)	2	33	33	(⁵)	729
2295	Coated fabrics, except rubberized.....	122	7	2	5	116	115	1	1,877
2298	Cordage and twine.....	68	3	3	(⁵)	66	65	1	635
2299	Textile goods, n.e.c.....	47	18	18	(⁵)	37	29	8	610
23	Apparel and related products.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
2381	Fabric and combination dress gloves..	1	(⁵)	(⁵)	...	1	1	...	24
2382	Fabric and combination work gloves..	9	(⁵)	...	(⁵)	8	8	...	96
24	Lumber and wood products.....	5,151	2,453	991	1,462	3,240	2,698	542	885
2411	Logging camps and contractors.....	538	515	61	454	24	23	1	790
242	Lumber and basic products.....	3,262	1,627	772	855	2,083	1,635	448	1,037
2421	Sawmills and planing mills.....	3,130	1,587	765	822	1,989	1,543	446	1,057
2422	Veneer mills.....	76	13	2	11	65	63	2	649
2423	Shingle mills.....	12	5	2	3	7	7	(⁵)	522
2424	Cooperage stock mills.....	31	18	3	15	13	13	...	1,000
2425	Excelsior mills.....	13	4	(⁵)	4	9	9	...	1,083
243	Millwork and related products.....	690	141	84	57	610	549	61	683
2431	Millwork plants.....	362	34	24	10	351	328	23	650
2432	Plywood plants.....	286	91	59	32	233	195	38	792
2433	Prefabricated wood products.....	42	16	1	15	26	26	(⁵)	456
244	Wooden containers.....	271	58	35	23	232	213	19	569
2441	Fruit and vegetable baskets.....	21	4	2	2	18	18	(⁵)	339
2442	Rattan and willow ware.....	2	(⁵)	(⁵)	(⁵)	2	2	...	182
2443	Cigar boxes.....	1	(⁵)	...	(⁵)	1	1	...	111
2444	Wooden boxes.....	215	46	28	18	187	169	18	600
2445	Cooperage.....	32	8	5	3	24	23	1	970
249	Miscellaneous wood products.....	390	112	39	73	291	278	13	775
2491	Wood preserving.....	145	73	20	53	74	72	2	1,394
2492	Lasts and related products.....	5	(⁵)	(⁵)	...	5	5	...	417
2493	Mirror and picture frames.....	8	(⁵)	(⁵)	(⁵)	8	8	...	182
2499	Wood products, n.e.c.....	232	39	19	20	204	193	11	676
25	Furniture and fixtures.....	949	99	79	20	924	850	74	331
251	Household furniture.....	700	78	63	15	684	622	62	336
2511	Wood furniture, not upholstered.....	492	69	58	11	483	423	60	449
2512	Upholstered household furniture.....	79	6	4	2	75	73	2	164
2514	Metal house furniture.....	78	3	1	2	75	75	(⁵)	321
2515	Mattresses and bedsprings.....	49	(⁵)	(⁵)	(⁵)	49	49	(⁵)	195
2519	Household furniture, n.e.c.....	2	(⁵)	(⁵)	(⁵)	2	2	(⁵)	200
252	Office furniture.....	67	5	3	2	66	62	4	370
2521	Wood office furniture.....	22	3	2	1	22	19	3	468
2522	Metal office furniture.....	45	2	1	1	44	43	1	338
253	Public and professional furniture...	56	10	10	(⁵)	52	46	6	357
2531	Public-building furniture.....	45	7	7	(⁵)	44	38	6	391
2532	Professional furniture.....	11	3	3	(⁵)	8	8	(⁵)	262
2541	Partitions and fixtures.....	84	2	1	1	83	82	1	317
256	Screens, shades, and blinds.....	31	4	2	2	28	27	1	217
2561	Window and door screens.....	11	1	1	(⁵)	11	10	1	305
2562	Window shades.....	8	2	1	1	6	6	...	235
2563	Venetian blinds.....	12	1	(⁵)	1	11	11	...	167
259	Furniture and fixtures, n.e.c.....	11	(⁵)	...	(⁵)	11	11	...	314
2591	Restaurant furniture.....	9	(⁵)	...	(⁵)	9	9	...	321
2599	Furniture and fixtures, n.e.c.....	2	(⁵)	...	(⁵)	2	2	...	286

See footnotes at end of table.

Table 2.—HORSEPOWER OF POWER EQUIPMENT USED IN MANUFACTURING INDUSTRIES BY INDUSTRY GROUP, 1954 AND 1939, AND BY INDUSTRY, 1954—Continued

Code No.	Industry group and industry ¹	Aggregate horsepower (Prime movers and electric motors driven by purchased energy) (1,000 hp)	Prime movers (1,000 hp)			Electric motors (1,000 hp)			Aggregate horsepower per 100 production workers
			Total	Driving generators	Not driving generators	Total	Driven by purchased energy	Driven by energy generated at establishment	
26	Pulp, paper and products.....	8,256	4,239	3,529	710	7,859	4,017	3,842	1,895
261	Pulp, paper and board.....	7,359	4,109	3,421	688	7,010	3,250	3,760	4,021
2611	Pulp mills.....	7,009	4,015	3,339	676	6,690	2,994	3,696	4,155
2612	Paper and paper board mills.....								
2613	Building paper and board mills.....								
2641	Paper coating and glazing.....	135	36	33	3	118	99	19	680
2651	Envelopes.....	21	1	1	(⁵)	20	20	...	161
2661	Paper bags.....	54	4	3	1	74	50	24	195
267	Paperboard containers.....	426	71	56	15	381	355	26	360
2671	Paperboard boxes.....	384	51	37	14	351	333	18	356
2674	Fiber cans, tubes, drums, etc.....	42	20	19	1	30	22	8	404
269	Pulp, paper and products, n.e.c.....	261	18	15	3	256	243	13	356
2691	Die-cut paper and board.....	48	1	1	(⁵)	47	47	(⁵)	485
2693	Wallpaper.....	10	1	1	(⁵)	9	9	...	379
2694	Pulp goods, pressed and molded.....	25	2	2	(⁵)	25	23	2	1,042
2699	Paper and board products, n.e.c.....	178	14	11	3	175	164	11	305
27	Printing and publishing ³	975	45	34	11	930	930	(⁵)	211
2711	Newspapers.....	420	11	7	4	409	409	...	282
2721	Periodicals.....	45	11	10	1	34	34	...	276
273	Books.....	35	1	1	(⁵)	34	34	...	126
2731	Books, publishing and printing.....	10	(⁵)	(⁵)	(⁵)	10	10	...	114
2732	Book printing.....	25	1	1	(⁵)	24	24	...	131
2741	Miscellaneous publishing.....	5	...	...	...	5	5	...	96
2751	Commercial printing.....	300	17	12	5	283	283	...	190
2761	Lithographing.....	118	4	3	1	114	114	...	196
2771	Greeting cards.....	8	1	1	(⁵)	7	7	...	53
278	Bookbinding and related industries..	44	(⁵)	(⁵)	(⁵)	44	44	(⁵)	139
2781	Bookbinding.....	12	(⁵)	(⁵)	(⁵)	12	12	...	78
2782	Blankbooks and paper ruling.....	14	(⁵)	(⁵)	(⁵)	14	14	(⁵)	203
2783	Loose-leaf binders and devices.....	16	(⁵)	(⁵)	...	16	16	(⁵)	254
2789	Miscellaneous bookbinding work.....	2	(⁵)	...	(⁵)	2	2	...	69
28	Chemicals and products.....	14,329	6,658	3,671	2,987	10,388	7,671	2,717	2,859
281	Inorganic chemicals.....	6,364	3,135	1,770	1,365	4,369	3,229	1,140	8,212
2811	Sulfuric acid.....	136	33	12	21	115	103	12	4,690
2812	Alkalies and chlorine.....	988	856	646	210	432	132	300	6,543
2819	Inorganic chemicals, n.e.c.....	5,240	2,246	1,112	1,134	3,822	2,994	828	8,821
282	Organic chemicals.....	4,723	2,747	1,464	1,283	3,180	1,976	1,204	2,680
2821	Cyclic (coal tar) crudes.....	16	4	(⁵)	4	12	12	...	1,143
2822	Intermediates and organic colors.....	630	411	299	112	394	219	175	2,838
2823	Plastics materials.....	563	233	99	134	439	330	109	1,989
2824	Synthetic rubber.....	283	131	39	92	169	152	17	4,639
2825	Synthetic fibers.....	1,035	867	726	141	747	168	579	2,260
2826	Explosives.....	480	176	87	89	393	304	89	1,882
2829	Organic chemicals, n.e.c.....	1,716	925	214	711	1,026	791	235	3,698
283	Drugs and medicines.....	313	46	29	17	270	267	3	540
2831	Biological products.....	9	(⁵)	(⁵)	(⁵)	9	9	...	321
2833	Medicinal chemicals (inc. botanicals)...	96	22	18	4	74	74	(⁵)	1,247
2834	Pharmaceutical preparations.....	208	24	11	13	187	184	3	440
284	Soap and related products.....	222	58	38	20	227	164	63	807
2841	Soap and glycerin.....	155	54	37	17	163	101	62	993
2842	Cleaning and polishing products.....	55	3	1	2	52	52	...	524
2843	Sulfonated oils and assistants.....	12	1	(⁵)	1	12	11	1	923
285	Paints and allied products.....	544	85	68	17	529	459	70	1,248
2851	Paints and varnishes.....	335	17	14	3	323	318	5	991
2852	Inorganic color pigments.....	204	68	54	14	201	136	65	2,267
2853	Whiting and fillers.....	5	(⁵)	(⁵)	...	5	5	...	714
286	Gum and wood chemicals.....	87	68	57	11	74	19	55	1,450
2861	Hardwood distillation.....	19	16	14	2	16	3	13	1,461
2862	Softwood distillation.....	59	49	42	7	52	10	42	1,639
2863	Gum naval stores.....	2	1	(⁵)	1	1	1	...	500
2865	Tanning and dyeing materials.....	7	2	1	1	5	5	(⁵)	1,400
287	Fertilizers.....	344	38	9	29	315	306	9	1,404
2871	Fertilizers.....	263	30	9	21	241	233	8	1,675
2872	Fertilizers, mixing only.....	81	8	(⁵)	8	74	73	1	920
288	Vegetable and animal oils.....	854	125	77	48	779	729	50	2,755
2881	Cottonseed oil mills.....	441	41	14	27	405	400	5	4,009
2882	Linseed oil mills.....	24	...	...	...	24	24	...	2,400
2883	Soybean oil mills.....	136	13	11	2	137	123	14	2,518
2884	Vegetable oil mills, n.e.c.....	52	8	5	3	62	44	18	2,889
2886	Grease and tallow.....	102	10	5	5	101	92	9	1,214
2887	Fatty acids.....	46	32	31	1	15	14	1	4,182
2889	Animal oils, n.e.c.....	53	21	11	10	35	32	3	2,944

See footnotes at end of table.

MANUFACTURES—SUMMARY STATISTICS

Table 2.—HORSEPOWER OF POWER EQUIPMENT USED IN MANUFACTURING INDUSTRIES BY INDUSTRY GROUP, 1954 AND 1939, AND BY INDUSTRY, 1954—Continued

Code No.	Industry group and industry ¹	Aggregate horsepower (Prime movers and electric motors driven by purchased energy) (1,000 hp)	Prime movers (1,000 hp)			Electric motors (1,000 hp)			Aggregate horsepower per 100 production workers
			Total	Driving generators	Not driving generators	Total	Driven by purchased energy	Driven by energy generated at establishment	
28	Chemicals and products—Con.								
289	Chemical products, n.e.c.....	878	356	159	197	645	522	123	1,551
2891	Printing ink.....	54	(⁵)	...	(⁵)	54	54	...	1,038
2892	Essential oils.....	1	...	...	...	1	1	...	333
2893	Toilet preparations.....	32	4	3	1	29	28	1	199
2894	Glue and gelatin.....	51	24	21	3	47	27	20	1,062
2895	Carbon black.....	57	11	7	4	52	46	6	2,036
2896	Compressed and liquefied gases.....	371	152	63	89	267	219	48	5,889
2897	Insecticides and fungicides.....	80	34	30	4	61	46	15	1,905
2898	Salt.....	140	123	32	91	50	17	33	4,242
2899	Chemical products, n.e.c.....	92	8	3	5	84	84	(⁵)	692
29	Petroleum and coal products....	7,479	5,002	1,313	3,689	3,855	2,477	1,378	4,566
2911	Petroleum refining.....	6,246	4,459	1,128	3,331	3,027	1,787	1,240	5,488
293	Coke and byproducts.....	973	508	170	338	597	465	132	3,487
2931	Beehive coke ovens.....	10	2	1	1	8	8	...	2,000
2932	Byproduct coke ovens.....	963	506	169	337	589	457	132	3,514
295	Paving and roofing materials.....	181	25	11	14	160	156	4	1,153
2951	Paving mixtures and blocks.....	75	15	4	11	60	60	(⁵)	2,344
2952	Roofing felts and coatings.....	106	10	7	3	100	96	4	848
299	Petroleum and coal products, n.e.c.	79	10	4	6	71	69	2	1,274
2992	Lubricants, n.e.c.....	44	6	3	3	40	38	2	936
2999	Petroleum and coal products, n.e.c....	35	4	1	3	31	31	...	2,333
30	Rubber products.....	1,848	322	259	63	1,822	1,526	296	942
3011	Tires and inner tubes.....	834	229	194	35	840	605	235	1,128
3021	Rubber footwear.....	55	7	4	3	50	48	2	350
3031	Reclaimed rubber.....	85	2	(⁵)	2	83	83	...	3,541
3099	Rubber industries, n.e.c.....	874	84	61	23	849	790	59	840
31	Leather and leather goods.....	505	87	77	10	463	418	45	157
3111	Leather tanning and finishing.....	270	72	63	9	239	198	41	699
3121	Industrial leather belting.....	7	(⁵)	(⁵)	(⁵)	7	7	(⁵)	212
3131	Footwear cut stock.....	34	(⁵)	(⁵)	(⁵)	34	34	(⁵)	193
314	Footwear, except rubber.....	165	14	13	1	155	151	4	79
3141	Footwear, except rubber.....	160	14	13	1	150	146	4	80
3142	House slippers.....	5	(⁵)	(⁵)	...	5	5	(⁵)	62
315	Leather gloves.....	2	(⁵)	(⁵)	(⁵)	2	2	(⁵)	33
3151	Leather dress gloves.....	1	(⁵)	(⁵)	(⁵)	1	1	(⁵)	26
3152	Leather work gloves.....	1	(⁵)	...	(⁵)	1	1	...	45
3161	Luggage.....	18	1	1	(⁵)	17	17	(⁵)	129
317	Purses and small leather goods....	7	(⁵)	...	(⁵)	7	7	...	26
3171	Handbags and purses.....	4	(⁵)	...	(⁵)	4	4	...	19
3172	Small leather goods.....	3	(⁵)	...	...	3	3	...	53
319	Miscellaneous leather goods.....	2	(⁵)	(⁵)	(⁵)	2	2	(⁵)	39
3192	Saddlery, harness, and whips.....	1	(⁵)	(⁵)	(⁵)	1	1	(⁵)	91
3199	Leather goods, n.e.c.....	1	(⁵)	...	...	1	1	...	26
32	Stone, clay, and glass products.	4,811	1,199	792	407	4,357	3,612	745	1,168
3211	Flat glass.....	224	62	56	6	208	162	46	1,052
322	Pressed and blown glassware.....	440	36	20	16	414	404	10	557
3221	Glass containers.....	276	25	15	10	259	251	8	627
3229	Pressed and blown glass, n.e.c.....	164	11	5	6	155	153	2	468
3231	Products of purchased glass.....	64	5	5	(⁵)	64	59	5	351
3241	Cement, hydraulic.....	1,771	674	564	110	1,715	1,097	618	5,209
325	Structural clay products.....	549	84	25	59	470	465	5	864
3251	Brick and hollow tile.....	300	54	19	35	248	246	2	1,045
3253	Floor and wall tile.....	29	(⁵)	...	(⁵)	29	29	...	302
3254	Sewer pipe.....	52	8	2	6	44	44	(⁵)	605
3255	Clay refractories.....	128	15	2	13	115	113	2	1,049
3259	Structural clay products, n.e.c.....	40	7	2	5	34	33	1	952
326	Pottery and related products.....	111	7	7	(⁵)	107	104	3	248
3261	Vitreous plumbing fixtures.....	28	2	2	(⁵)	27	26	1	364
3262	Vitreous-china food utensils.....	17	3	3	(⁵)	14	14	(⁵)	224
3263	Earthenware food utensils.....	15	(⁵)	(⁵)	(⁵)	15	15	(⁵)	121
3264	Porcelain electrical supplies.....	39	2	2	(⁵)	39	37	2	494
3265	China decorating for the trade.....	(⁵)	...	...	(⁵)	(⁵)	(⁵)	...	(⁵)
3269	Pottery products, n.e.c.....	12	(⁵)	(⁵)	(⁵)	12	12	...	153
327	Concrete and plaster products.....	772	144	30	114	639	628	11	1,098
3271	Concrete products.....	297	78	11	67	219	219	...	637
3272	Gypsum products.....	214	24	8	16	195	190	5	2,326
3274	Lime.....	182	32	8	24	155	150	5	2,676
3275	Mineral wool.....	79	10	3	7	70	69	1	1,053
3281	Cut-stone and stone products.....	211	50	16	34	176	161	15	1,147

See footnotes at end of table.

HORSEPOWER OF POWER EQUIPMENT

207-7

Table 2.—HORSEPOWER OF POWER EQUIPMENT USED IN MANUFACTURING INDUSTRIES BY INDUSTRY GROUP, 1954 AND 1939, AND BY INDUSTRY, 1954—Continued

Code No.	Industry group and industry ¹	Aggregate horsepower (Prime movers and electric motors driven by purchased energy) (1,000 hp)	Prime movers (1,000 hp)			Electric motors (1,000 hp)			Aggregate horsepower per 100 production workers
			Total	Driving generators	Not driving generators	Total	Driven by purchased energy	Driven by energy generated at establishment	
32	Stone, clay, and glass products—Continued								
329	Nonmetallic mineral products, nec.	669	137	69	68	564	532	32	1,075
3291	Abrasive products.....	115	11	11	(5)	119	104	15	745
3292	Asbestos products.....	211	49	42	7	174	162	12	1,192
3293	Gaskets and asbestos insulations.....	45	4	3	1	46	41	5	445
3295	Minerals: ground or treated.....	186	67	13	54	119	119	(5)	2,906
3297	Nonclay refractories.....	99	6	(5)	6	93	93	...	1,394
3298	Statuary and art goods.....	1	(5)	...	(5)	1	1	...	71
3299	Nonmetallic mineral products, n.e.c....	12	(5)	(5)	(5)	12	12	...	333
33	Primary metal industries.....	24,482	9,740	6,371	3,369	21,495	14,742	6,753	2,609
331	Blast furnaces and steel mills....	16,372	7,146	4,023	3,123	15,354	9,226	6,128	3,640
3312	Steel works and rolling mills.....	15,476	6,333	3,225	3,108	15,132	9,143	5,989	3,510
3313	Electrometallurgical products.....	896	813	798	15	222	83	139	10,182
332	Iron and steel foundries.....	1,584	127	67	60	1,482	1,457	25	860
3321	Gray-iron foundries.....	808	38	17	21	781	770	11	683
3322	Malleable-iron foundries.....	155	10	3	7	146	145	1	767
3323	Steel foundries.....	621	79	47	32	555	542	13	1,362
333	Primary nonferrous metals.....	2,887	2,191	2,094	97	1,066	696	370	6,444
3331	Primary copper.....	387	220	161	59	266	167	99	3,308
3332	Primary lead.....	84	23	12	11	75	61	14	2,545
3333	Primary zinc.....	323	58	50	8	278	265	13	3,756
3334	Primary aluminum.....	2,041	1,885	1,870	15	400	156	244	12,077
3339	Primary nonferrous metals, n.e.c....	52	5	1	4	47	47	...	1,238
3341	Secondary nonferrous metals.....	92	12	6	6	80	80	(5)	754
335	Nonferrous rolling and drawing....	1,689	164	132	32	1,687	1,525	162	2,362
3351	Copper rolling and drawing.....	639	104	95	9	662	535	127	1,879
3352	Aluminum rolling and drawing.....	878	52	31	21	856	826	30	2,956
3359	Rolling and drawing, n.e.c.....	172	8	6	2	169	164	5	2,263
3361	Nonferrous foundries.....	327	26	15	11	319	301	18	532
339	Primary metal industries, n.e.c....	1,531	74	34	40	1,507	1,457	50	1,339
3391	Iron and steel forgings.....	419	26	10	16	407	393	14	1,270
3392	Wire drawing.....	488	29	20	9	494	459	35	1,129
3393	Welded and heavy-rieveted pipe.....	306	8	2	6	298	298	...	1,672
3399	Primary metal industries, n.e.c.....	318	11	2	9	308	307	1	1,614
34	Fabricated metal products.....	4,888	309	164	145	4,658	4,579	79	595
3411	Tin cans and other tinware.....	215	17	2	15	213	198	15	448
342	Cutlery, tools, and hardware.....	571	35	25	10	560	536	24	485
3421	Cutlery.....	59	4	3	1	57	55	2	480
3422	Edge tools.....	32	1	1	(5)	36	31	5	542
3423	Hand tools, n.e.c.....	120	3	3	(5)	119	117	2	638
3424	Files.....	18	1	...	1	17	17	...	692
3425	Hand-saws and saw blades.....	37	3	2	1	37	34	3	698
3429	Hardware, n.e.c.....	305	23	16	7	294	282	12	51
343	Heating and plumbing equipment....	476	45	23	22	445	431	14	574
3431	Plumbing fixtures and fittings.....	184	19	13	6	176	165	11	719
3439	Heating and cooking apparatus, n.e.c.	292	26	10	16	269	266	3	511
344	Structural metal products.....	1,531	120	58	62	1,424	1,411	13	706
3441	Structural and ornamental work.....	645	47	23	24	601	598	3	733
3442	Metal doors, sash, and trim.....	103	8	(5)	8	95	95	(5)	312
3443	Boiler shop products.....	646	57	31	26	597	589	8	1,129
3444	Sheet-metal work.....	137	8	4	4	131	129	2	356
346	Metal stamping and coating.....	944	49	35	14	897	895	2	613
3461	Vitreous-enameled products.....	30	1	1	(5)	29	29	...	500
3463	Metal stampings.....	676	21	16	5	656	655	1	636
3465	Enameling and lacquering.....	15	(5)	(5)	(5)	15	15	...	319
3466	Galvanizing.....	4	(5)	(5)	(5)	4	4	...	154
3467	Engraving on metal.....	5	(5)	(5)	(5)	5	5	(5)	167
3468	Plating and polishing.....	214	27	18	9	188	187	1	686
3471	Lighting fixtures.....	142	16	1	15	126	126	(5)	391
348	Fabricated wire products.....	193	5	2	3	188	188	(5)	369
3481	Nails and spikes.....	7	1	1	(5)	6	6	(5)	304
3489	Wirework, n.e.c.....	186	4	1	3	182	182	(5)	374
349	Metal products, n.e.c.....	816	22	18	4	805	794	11	723
3491	Metal barrels, drums, and pails....	63	1	(5)	1	62	62	...	732
3492	Safes and vaults.....	10	(5)	(5)	(5)	10	10	...	400
3493	Steel springs.....	79	2	1	1	78	77	1	1,411
3494	Bolts, nuts, washers, and rivets....	312	16	14	2	305	296	9	737
3495	Screw machine products.....	186	1	1	(5)	185	185	(5)	628
3496	Collapse tubes.....	8	...	...	(5)	8	8	...	210
3497	Metal foil.....	85	1	1	(5)	84	84	...	1,545
3499	Fabricated metal products, n.e.c.....	73	1	1	(5)	73	72	1	503

See footnotes at end of table.

MANUFACTURES—SUMMARY STATISTICS

Table 2.—HORSEPOWER OF POWER EQUIPMENT USED IN MANUFACTURING INDUSTRIES BY INDUSTRY GROUP, 1954 AND 1939, AND BY INDUSTRY, 1954—Continued

Code No.	Industry group and industry ¹	Aggregate horsepower (Prime movers and electric motors driven by purchased energy) (1,000 hp)	Prime movers (1,000 hp)			Electric motors (1,000 hp)			Aggregate horsepower per 100 production workers
			Total	Driving generators	Not driving generators	Total	Driven by purchased energy	Driven by energy generated at establishment	
35	Machinery, except electrical....	7,306	684	496	188	7,008	6,622	386	624
351	Engines and turbines.....	621	173	138	35	524	448	76	1,025
3511	Steam engines and turbines.....	269	100	94	6	195	169	26	1,263
3519	Internal combustion engines.....	352	73	44	29	329	279	50	898
352	Tractors and farm machinery.....	867	136	102	34	886	731	155	821
3521	Tractors.....	484	67	50	17	509	417	92	978
3522	Farm machinery (except tractors).....	383	69	52	17	377	314	63	685
353	Construction and mining machinery..	711	58	34	24	668	653	15	892
3531	Construction and mining machinery.....	483	39	26	13	459	444	15	870
3532	Oil-field machinery and tools.....	228	19	8	11	209	209	(⁵)	946
354	Metalworking machinery.....	1,213	60	48	12	1,186	1,153	33	588
3541	Machine tools.....	376	12	10	2	372	364	8	605
3542	Metalworking machinery.....	363	30	22	8	341	333	8	821
3544	Special dies and tools.....	292	16	15	1	292	276	16	446
3545	Metalworking machinery attachments....	182	2	1	1	181	180	1	529
355	Special-industry machinery, n.e.c..	689	65	47	18	642	624	18	562
3551	Food-products machinery.....	123	9	8	1	116	114	2	519
3552	Textile machinery.....	163	29	19	10	150	134	16	582
3553	Woodworking machinery.....	47	2	1	1	45	45	(⁵)	534
3554	Paper-industries machinery.....	91	2	1	1	89	89	(⁵)	791
3555	Printing-trades machinery.....	73	5	1	4	68	68	(⁵)	445
3559	Special-industry machinery, n.e.c.....	192	18	17	1	174	174	(⁵)	566
356	General industrial machinery.....	1,035	74	52	22	997	961	36	660
3561	Pumps and compressors.....	299	35	39	6	291	264	27	727
3562	Elevators and escalators.....	30	3	1	2	30	27	3	428
3563	Conveyors.....	147	3	2	1	144	144	(⁵)	662
3564	Blowers and fans.....	67	8	2	6	63	59	4	489
3565	Industrial trucks and tractors.....	65	3	1	2	62	62	(⁵)	591
3566	Power-transmission equipment.....	273	8	6	2	265	265	(⁵)	720
3567	Industrial furnaces and ovens.....	23	(⁵)	(⁵)	(⁵)	23	23	(⁵)	460
3568	Mechanical stokers.....	5	1	1	(⁵)	5	4	1	714
3569	General industrial machinery, n.e.c.....	126	13	10	3	114	113	1	708
357	Office and store machines.....	144	30	25	5	149	114	35	176
3571	Computing and related machines.....	73	28	24	4	79	45	34	89
3572	Typewriters.....	25	1	(⁵)	1	24	24	...	151
3576	Scales and balances.....	13	1	1	(⁵)	13	12	1	325
3579	Office and store machines, n.e.c.....	33	(⁵)	(⁵)	(⁵)	33	33	...	209
358	Service and household machines.....	894	38	14	24	859	856	3	600
3581	Domestic laundry equipment.....	67	6	3	3	64	61	3	401
3582	Laundry and dry-cleaning machinery....	30	4	4	(⁵)	26	26	(⁵)	652
3583	Sewing machines.....	43	2	2	...	41	41	...	457
3584	Vacuum cleaners.....	26	1	(⁵)	1	25	25	...	406
3585	Refrigeration machinery.....	598	24	4	20	574	574	(⁵)	605
3586	Measuring and dispensing pumps.....	104	(⁵)	...	(⁵)	104	104	...	1,793
3589	Service and household machines, n.e.c.	26	1	1	(⁵)	25	25	(⁵)	377
359	Miscellaneous machinery parts.....	1,132	50	36	14	1,097	1,082	15	542
3591	Valves and fittings, except plumbing..	320	28	21	7	299	292	7	548
3592	Fabricated pipe and fittings.....	63	2	1	1	61	61	...	636
3593	Ball and roller bearings.....	284	3	(⁵)	3	281	281	...	712
3594	Industrial patterns and molds.....	40	(⁵)	(⁵)	(⁵)	40	40	(⁵)	237
3599	Machine shops.....	425	17	14	3	416	408	8	508
36	Electrical machinery.....	2,521	302	233	69	2,371	2,219	152	349
361	Electrical industrial apparatus....	1,348	137	98	39	1,257	1,211	46	539
3611	Wiring devices and supplies.....	136	16	2	14	126	120	6	391
3612	Carbon and graphite products.....	80	16	6	10	64	64	(⁵)	1,270
3613	Electrical measuring instruments.....	31	2	(⁵)	2	29	29	...	128
3614	Motors and generators.....	659	49	42	7	621	610	11	800
3615	Transformers.....	198	47	42	5	176	151	25	678
3616	Electrical control apparatus.....	165	5	4	1	164	160	4	294
3617	Electrical welding apparatus.....	33	2	2	(⁵)	31	31	(⁵)	611
3619	Electrical industrial apparatus, nec..	46	(⁵)	(⁵)	(⁵)	46	46	...	411
3621	Electrical appliances.....	127	8	2	6	121	119	2	329
3631	Insulated wire and cable.....	84	6	2	4	78	78	(⁵)	730
3641	Engine electrical equipment.....	110	10	4	6	107	100	7	296
3651	Electric lamps (bulbs).....	45	(⁵)	(⁵)	(⁵)	45	45	...	236
366	Communication equipment.....	629	125	115	10	597	504	93	189
3661	Radios and related products.....	359	39	32	7	341	320	21	162
3662	Electronic tubes.....	101	2	1	1	99	99	...	175
3663	Phonograph records.....	16	2	1	1	14	14	...	340
3664	Telephone and telegraph equipment....	130	81	80	1	121	49	72	297
3669	Communication equipment, n.e.c.....	23	1	1	(⁵)	22	22	...	377
369	Electrical products, n.e.c.....	178	16	12	4	166	162	4	551
3691	Storage batteries.....	114	16	12	4	102	98	4	966
3692	Primary batteries.....	24	(⁵)	(⁵)	(⁵)	24	24	(⁵)	273
3693	X-ray and therapeutic apparatus.....	15	(⁵)	(⁵)	(⁵)	15	15	(⁵)	326
3699	Electrical products, n.e.c.....	25	(⁵)	(⁵)	(⁵)	25	25	...	362

See footnotes at end of table.

HORSEPOWER OF POWER EQUIPMENT

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Table 2.—HORSEPOWER OF POWER EQUIPMENT USED IN MANUFACTURING INDUSTRIES BY INDUSTRY GROUP, 1954 AND 1939, AND BY INDUSTRY, 1954—Continued

Code No.	Industry group and industry ¹	Aggregate horsepower (Prime movers and electric motors driven by purchased energy) (1,000 hp)	Prime movers (1,000 hp)			Electric motors (1,000 hp)			Aggregate horsepower per 100 production workers
			Total	Driving generators	Not driving generators	Total	Driven by purchased energy	Driven by energy generated at establishment	
37	Transportation equipment.....	9,041	1,347	796	551	8,130	7,694	436	681
371	Motor vehicles and equipment.....	4,905	939	606	333	4,267	3,966	301	841
3713	Truck and bus bodies.....	63	2	1	1	61	61	(⁵)	417
3715	Truck trailers.....	70	1	1	(⁵)	69	69	...	538
3716	Automobile trailers.....	17	1	(⁵)	1	16	16	...	181
3717	Motor vehicles and parts.....	4,755	935	604	331	4,121	3,820	301	872
372	Aircraft and parts.....	2,729	154	61	93	2,591	2,575	16	465
3721	Aircraft.....	850	63	25	38	787	787	(⁵)	266
3722	Aircraft engines.....	1,118	59	18	41	1,063	1,059	4	954
3723	Aircraft propellers.....	241	4	1	3	237	237	...	2,077
3729	Aircraft equipment, n.e.c.....	520	28	17	11	504	492	12	381
373	Ships and boats.....	927	161	66	95	783	766	17	836
3731	Ship building and repairing.....	886	151	64	87	752	735	17	922
3732	Boat building and repairing.....	41	10	2	8	31	31	...	279
374	Railroad equipment.....	443	92	63	29	453	351	102	1,115
3741	Locomotives and parts.....	182	43	38	5	205	139	66	1,145
3742	Railroad and street cars.....	261	49	25	24	248	212	36	1,097
3751	Motorcycles and bicycles.....	31	1	...	1	30	30	...	525
3799	Transportation equipment, n.e.c.....	6	(⁵)	(⁵)	(⁵)	6	6	...	461
38	Instruments and related products.	1,161	167	109	58	1,136	994	142	594
3811	Scientific instruments.....	83	3	(⁵)	3	80	80	...	270
3821	Mechanical measuring instruments....	238	3	2	1	237	235	2	494
3831	Optical instruments and lenses.....	21	2	(⁵)	2	19	19	...	223
384	Medical instruments and supplies....	58	3	3	(⁵)	56	55	1	218
3841	Surgical and medical instruments.....	8	(⁵)	(⁵)	(⁵)	8	8	...	154
3842	Surgical appliances and supplies.....	37	2	2	(⁵)	36	35	1	221
3843	Dental equipment and supplies.....	13	1	1	(⁵)	12	12	(⁵)	255
3851	Ophthalmic goods.....	527	14	14	(⁵)	520	513	7	3,444
3861	Photographic equipment.....	197	134	83	51	190	63	127	480
387	Watches and clocks.....	37	8	7	1	34	29	5	157
3871	Watches and clocks.....	31	8	7	1	28	23	5	153
3872	Watchcases.....	6	(⁵)	(⁵)	...	6	6	...	181
39	Miscellaneous manufactures.....	937	83	63	20	910	854	56	243
391	Jewelry and silverware.....	96	15	10	5	85	81	4	247
3911	Jewelry (precious metal).....	14	(⁵)	(⁵)	(⁵)	14	14	...	76
3912	Jewelers' findings.....	11	(⁵)	(⁵)	(⁵)	11	11	...	244
3913	Lapidary work.....	(⁵)	(⁵)	(⁵)	(⁵)	(⁵)	(⁵)	...	(⁵)
3914	Silverware and plated ware.....	71	15	10	5	60	56	4	496
393	Musical instruments and parts.....	35	4	4	(⁵)	33	31	2	265
3931	Pianos.....	14	3	3	(⁵)	13	11	2	286
3932	Organs.....	2	...	...	(⁵)	2	2	...	133
3933	Piano and organ parts.....	9	1	1	(⁵)	8	8	(⁵)	333
3939	Musical instruments, n.e.c.....	10	(⁵)	(⁵)	...	10	10	...	250
394	Toys and sporting goods.....	145	6	1	5	140	139	1	190
3941	Games and toys, n.e.c.....	61	5	1	4	57	56	1	186
3942	Dolls.....	10	(⁵)	(⁵)	(⁵)	10	10	...	73
3943	Children's vehicles.....	17	(⁵)	(⁵)	(⁵)	17	17	...	315
3949	Sporting and athletic goods.....	57	1	(⁵)	1	56	56	...	234
395	Office supplies.....	43	3	3	(⁵)	42	40	2	209
3951	Pens and mechanical pencils.....	15	(⁵)	(⁵)	(⁵)	15	15	...	187
3952	Lead pencils and crayons.....	13	3	3	(⁵)	12	10	2	351
3953	Hand stamps and stencils.....	4	(⁵)	(⁵)	(⁵)	4	4	(⁵)	100
3954	Artists' materials.....	2	(⁵)	(⁵)	(⁵)	2	2	...	143
3955	Carbon paper and inked ribbons.....	9	(⁵)	(⁵)	(⁵)	9	9	(⁵)	281
396	Costume jewelry and notions.....	68	12	11	1	78	56	22	119
3961	Costume jewelry.....	13	(⁵)	(⁵)	(⁵)	13	13	...	54
3962	Artificial flowers.....	4	(⁵)	(⁵)	(⁵)	4	4	...	61
3963	Buttons.....	14	(⁵)	(⁵)	(⁵)	14	14	(⁵)	189
3964	Needles, pins, and fasteners.....	37	12	11	1	47	25	22	197

See footnotes at end of table.

MANUFACTURES--SUMMARY STATISTICS

Table 2.—HORSEPOWER OF POWER EQUIPMENT USED IN MANUFACTURING INDUSTRIES BY INDUSTRY GROUP, 1954 AND 1939, AND BY INDUSTRY, 1954—Continued

Code No.	Industry group and industry ¹	Aggregate horsepower (Prime movers and electric motors driven by purchased energy) (1,000 hp)	Prime movers (1,000 hp)			Electric motors (1,000 hp)			Aggregate horsepower per 100 production workers
			Total	Driving generators	Not driving generators	Total	Driven by purchased energy	Driven by energy generated at establishment	
	Miscellaneous manufactures—Continued								
3971	Plastics products, n.e.c.....	363	20	12	8	355	343	12	480
398 } 399	Miscellaneous manufactures.....	187	23	22	1	177	164	13	181
3981	Brooms and brushes.....	24	3	3	(⁵)	22	21	1	178
3982	Cork products.....	12	3	3	(⁵)	13	9	4	706
3983	Matches.....	18	8	8	(⁵)	12	10	2	352
3984	Candles.....	2	1	1	(⁵)	3	1	2	91
3985	Fireworks and pyrotechnics.....	1	(⁵)	(⁵)	(⁵)	1	1	...	43
3986	Jewelry and instrument cases.....	10	(⁵)	(⁵)	(⁵)	10	10	...	156
3987	Lamp shades.....	1	(⁵)	(⁵)	(⁵)	1	1	...	22
3988	Morticians' goods.....	42	4	4	(⁵)	42	38	4	316
3991	Beauty and barber-shop equipment.....	3	(⁵)	(⁵)	(⁵)	3	3	...	214
3992	Furs, dressed and dyed.....	9	(⁵)	(⁵)	...	9	9	(⁵)	300
3993	Signs and advertising displays.....	25	2	1	1	23	23	(⁵)	95
3994	Hairwork.....	(⁵)	(⁵)	(⁵)	...	(⁵)	(⁵)	...	(⁵)
3995	Umbrellas, parasols, and canes.....	3	(⁵)	(⁵)	...	3	3	(⁵)	107
3996	Tobacco pipes.....	2	(⁵)	(⁵)	...	2	2	...	154
3997	Soda-fountain and bar equipment.....	3	...	...	...	3	3	...	273
3999	Miscellaneous products, n.e.c.....	32	2	2	(⁵)	30	30	...	196
19	Ordnance and accessories.....	1,369	154	57	97	1,240	1,215	25	804
1951	Small arms.....	71	2	1	1	69	69	(⁵)	628
1961	Small arms ammunition.....	139	29	3	26	122	110	12	635

NA Not available.

¹The 1939 figures are adjusted to the 1954 Census 2-digit major industry group definitions.²The 1939 horsepower figures for Major Group 20 are adjusted because of a revision in Industry 2097, Manufactured Ice. The estimated revision was based on an assumed aggregate horsepower per production worker.³In the Apparel Industries, Major Group 23, horsepower data were collected only for Industries 2381, Fabric and Combination Dress Gloves, and 2382, Fabric and Combination Work Gloves. Consequently totals for the 2-digit group are not available. The industries which were not covered would have a negligible effect on the United States totals. In the Printing and Publishing Industries, Major Group 27, horsepower data were not collected for Group 279, Printing Trades Service Industries, in 1954. However, these industries would have a negligible effect on the totals for Major Group 27. Consequently, the Major Group totals are shown.⁴Ordnance and accessories data not separately available for 1939.⁵Less than 500 horsepower.

HORSEPOWER OF POWER EQUIPMENT

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Table 3.—HORSEPOWER OF POWER EQUIPMENT USED IN MANUFACTURING INDUSTRIES, BY DIVISIONS AND STATES: 1954 and 1939

Division and State	Aggregate horsepower per 100 production workers	Aggregate horsepower (Prime movers and electric motors driven by purchased energy) (1,000 hp)	Prime movers (1,000 hp)			Electric motors (1,000 hp)		
			Total	Driving generators	Not driving generators	Total	Driven by purchased energy	Driven by energy generated at establishments
United States, total ¹.....1954..	962	108,362	35,579	20,906	14,673	91,821	72,783	19,038
.....1939..	642	50,418	21,225	13,938	7,287	45,204	29,193	16,011
New England,.....1954..	589	6,318	1,652	1,248	404	5,715	4,666	1,049
.....1939..	471	4,454	1,938	1,483	455	3,863	2,516	1,347
Maine.....1954..	1,130	999	538	409	129	889	461	428
.....1939..	920	680	426	249	177	489	254	235
New Hampshire.....1954..	645	419	120	33	87	335	299	36
.....1939..	497	271	179	149	30	243	92	151
Vermont.....1954..	694	193	45	31	14	173	148	25
.....1939..	776	163	62	37	25	139	101	38
Massachusetts.....1954..	536	2,579	577	483	94	2,299	2,002	297
.....1939..	429	1,971	795	637	158	1,747	1,176	571
Rhode Island.....1954..	427	425	66	57	9	411	359	52
.....1939..	348	365	121	109	12	338	244	94
Connecticut.....1954..	550	1,703	306	235	71	1,608	1,397	211
.....1939..	432	1,004	355	302	53	907	649	258
Middle Atlantic.....1954..	870	23,038	6,299	3,375	2,924	20,340	16,739	3,601
.....1939..	564	12,883	5,273	3,098	2,175	11,498	7,610	3,888
New York.....1954..	620	6,989	1,370	681	689	6,416	5,619	797
.....1939..	435	4,155	1,140	732	408	3,618	3,015	603
New Jersey.....1954..	677	3,605	955	671	284	3,232	2,650	582
.....1939..	456	1,970	778	627	151	1,803	1,192	611
Pennsylvania.....1954..	1,260	12,444	3,974	2,023	1,951	10,692	8,470	2,222
.....1939..	763	6,758	3,355	1,739	1,616	6,077	3,403	2,674
East North Central.....1954..	970	32,814	9,382	5,739	3,643	29,323	23,432	5,891
.....1939..	731	16,006	6,399	4,511	1,888	15,586	9,607	5,979
Ohio.....1954..	1,184	11,400	3,621	1,880	1,741	9,674	7,779	1,895
.....1939..	835	4,989	2,040	1,282	758	4,869	2,949	1,920
Indiana.....1954..	1,107	4,911	1,602	967	635	4,937	3,309	1,628
.....1939..	1,016	2,814	949	677	272	3,097	1,865	1,232
Illinois.....1954..	783	6,690	1,630	1,024	606	6,027	5,060	967
.....1939..	540	3,218	1,234	794	440	2,976	1,984	992
Michigan.....1954..	913	7,295	1,876	1,367	509	6,326	5,419	907
.....1939..	709	3,689	1,631	1,341	290	3,396	2,058	1,338
Wisconsin.....1954..	775	2,518	653	501	152	2,359	1,865	494
.....1939..	650	1,296	545	417	128	1,248	751	497
West North Central.....1954..	735	4,878	1,301	776	525	4,306	3,577	729
.....1939..	607	2,284	799	549	250	2,098	1,485	613
Minnesota.....1954..	756	1,071	356	251	105	919	715	204
.....1939..	749	588	289	200	89	522	299	223
Iowa.....1954..	760	906	256	186	70	887	650	237
.....1939..	532	342	101	81	20	395	241	154
Missouri.....1954..	657	1,660	309	209	100	1,500	1,351	149
.....1939..	440	782	203	145	58	704	579	125
North Dakota.....1954..	897	35	22	7	15	22	13	9
.....1939..	767	15	6	5	1	16	9	7
South Dakota.....1954..	500	42	4	2	2	40	38	2
.....1939..	614	32	11	7	4	30	21	9
Nebraska.....1954..	730	307	47	19	28	277	260	17
.....1939..	961	175	41	25	16	155	134	21
Kansas.....1954..	892	857	307	102	205	661	550	111
.....1939..	1,123	350	148	86	62	276	202	74
South Atlantic.....1954..	886	11,879	4,911	3,536	1,375	10,658	6,968	3,690
.....1939..	575	5,607	2,716	2,010	706	4,728	2,891	1,837
Delaware.....1954..	1,054	297	93	71	22	249	204	45
.....1939..	665	130	49	37	12	119	81	38
Maryland.....1954..	883	1,540	559	344	215	1,824	981	843
.....1939..	662	933	277	194	83	1,022	656	366
District of Columbia.....1954..	496	56	5	2	3	51	51	...
.....1939..	481	33	5	2	3	30	28	2
Virginia.....1954..	882	1,624	761	598	163	1,374	863	511
.....1939..	643	853	548	371	177	673	305	368
West Virginia.....1954..	2,511	2,344	1,323	786	537	1,966	1,021	945
.....1939..	1,089	809	583	494	89	711	226	485
North Carolina.....1954..	582	2,096	672	554	118	1,742	1,424	318
.....1939..	421	1,130	502	401	101	770	628	142
South Carolina.....1954..	916	1,571	639	542	97	1,384	932	452
.....1939..	510	640	302	236	66	523	338	185
Georgia.....1954..	662	1,495	443	340	103	1,321	1,052	269
.....1939..	509	794	267	153	114	656	527	129
Florida.....1954..	932	856	416	299	117	747	440	307
.....1939..	560	285	183	122	61	224	102	122

See footnote at end of table.

MANUFACTURES—SUMMARY STATISTICS

Table 3.—HORSEPOWER OF POWER EQUIPMENT USED IN MANUFACTURING INDUSTRIES, BY DIVISIONS AND STATES: 1954 and 1939—Continued

Division and State	Aggregate horsepower per 100 production workers	Aggregate horsepower (Prime movers and electric motors driven by purchased energy) (1,000 hp)	Prime movers (1,000 hp)			Electric motors (1,000 hp)		
			Total	Driving generators	Not driving generators	Total	Driven by purchased energy	Driven by energy generated at establishments
East South Central.....1954..	1,312	6,874	1,768	1,126	642	5,917	5,106	811
.....1939..	672	2,379	1,075	571	504	1,901	1,304	597
Kentucky.....1954..	1,687	1,738	181	50	131	1,583	1,557	26
.....1939..	648	402	171	92	79	313	231	82
Tennessee.....1954..	1,341	2,523	743	571	172	2,083	1,780	303
.....1939..	520	679	278	200	78	604	401	203
Alabama.....1954..	1,194	2,043	615	364	251	1,747	1,428	319
.....1939..	888	1,029	468	200	268	827	561	266
Mississippi.....1954..	927	570	229	141	88	504	341	163
.....1939..	593	269	158	79	79	157	111	46
West South Central.....1954..	1,997	10,316	6,601	3,523	3,078	5,660	3,715	1,945
.....1939..	950	2,466	1,418	675	743	1,685	1,048	637
Arkansas.....1954..	1,212	757	448	296	152	514	309	205
.....1939..	667	236	127	58	69	160	109	51
Louisiana.....1954..	2,598	2,827	2,050	1,228	822	1,404	777	627
.....1939..	933	657	411	183	228	413	246	167
Oklahoma.....1954..	1,171	682	268	64	204	477	414	63
.....1939..	957	264	133	77	56	205	131	74
Texas.....1954..	2,106	6,050	3,835	1,935	1,900	3,265	2,215	1,050
.....1939..	1,039	1,309	747	357	390	907	562	345
Mountain.....1954..	1,581	2,194	937	483	454	1,765	1,257	508
.....1939..	1,554	1,025	500	320	180	793	525	268
Montana.....1954..	3,065	438	128	25	103	332	310	22
.....1939..	1,813	157	32	17	15	143	125	18
Idaho.....1954..	1,718	347	140	90	50	252	207	45
.....1939..	2,137	214	44	20	24	195	170	25
Wyoming.....1954..	2,398	110	69	16	53	101	41	60
.....1939..	1,683	55	33	19	14	34	22	12
Colorado.....1954..	834	385	163	117	46	312	222	90
.....1939..	1,067	248	170	103	67	206	78	128
New Mexico.....1954..	872	70	23	8	15	49	47	2
.....1939..	1,530	45	36	25	11	12	9	3
Arizona.....1954..	1,093	217	67	49	18	193	150	43
.....1939..	2,320	135	84	70	14	97	51	46
Utah.....1954..	2,236	474	263	110	153	450	211	239
.....1939..	1,167	129	65	30	35	91	64	27
Nevada.....1954..	3,457	153	84	68	16	76	69	7
.....1939..	4,099	42	36	36	...	15	6	9
Pacific.....1954..	1,025	10,051	2,728	1,100	1,628	8,137	7,323	814
.....1939..	800	3,314	1,107	721	386	3,052	2,207	845
Washington.....1954..	1,741	2,531	788	408	380	2,084	1,743	341
.....1939..	1,131	935	404	307	97	902	531	371
Oregon.....1954..	1,414	1,587	661	303	358	1,126	926	200
.....1939..	896	514	266	151	115	425	248	177
California.....1954..	821	5,933	1,279	389	890	4,927	4,654	273
.....1939..	680	1,865	437	263	174	1,725	1,428	297

¹The 1954 figures do not include power equipment for Major Industry Group 23, Apparel and Related Products, or Group 279, Printing Trades Service Industries.

HORSEPOWER OF POWER EQUIPMENT

207-13

Table 4.—HORSEPOWER OF POWER EQUIPMENT USED IN MANUFACTURING INDUSTRIES FOR STATES BY MAJOR INDUSTRY GROUP: 1954

Code No.	State and major industry group	Aggregate horsepower (Prime movers and electric motors driven by purchased energy) (1,000 hp)	Prime movers (1,000 hp)			Electric motors (1,000 hp)			Aggregate horsepower per 100 production workers
			Total	Driving generators	Not driving generators	Total	Driven by purchased energy	Driven by energy generated at establishment	
	Alabama.....	2,043	615	364	251	1,747	1,428	319	1,194
20	Food and kindred products.....	47	3	(1)	3	44	44	(1)	465
22	Textile mill products.....	198	1	1	(1)	201	197	4	448
24	Lumber and wood products.....	134	72	15	57	64	62	2	510
25	Furniture and fixtures.....	5	(1)	(1)	(1)	5	5	...	294
26	Pulp, paper and products.....	206	113	93	20	217	93	124	2,784
27	Printing and publishing.....	5	(1)	(1)	(1)	5	5	...	167
28	Chemicals and products.....	154	82	58	24	141	72	69	2,800
29	Petroleum and coal products.....	84	56	29	27	35	28	7	3,000
30	Rubber products.....	45	2	...	2	43	43	...	1,023
32	Stone, clay, and glass products.....	150	17	3	14	133	133	...	2,381
33	Primary metal industries.....	834	247	158	89	700	587	113	2,574
34	Fabricated metal products.....	56	2	1	1	54	54	(1)	789
35	Machinery, except electrical.....	30	(1)	...	(1)	30	30	...	638
36	Electrical machinery.....	4	...	...	...	4	4	...	182
37	Transportation equipment.....	72	20	6	14	52	52	...	800
39	Miscellaneous manufactures.....	18	...	...	...	18	18	...	947
	Arizona.....	217	67	49	18	193	150	43	1,093
20	Food and kindred products.....	24	(1)	(1)	(1)	24	24	...	923
24	Lumber and wood products.....	11	5	2	3	8	6	2	478
25	Furniture and fixtures.....	(1)	...	...	...	(1)	(1)	...	(1)
27	Printing and publishing.....	3	(1)	...	(1)	3	3	...	231
28	Chemicals and products.....	23	4	2	2	20	19	1	2,556
32	Stone, clay, and glass products.....	14	10	8	2	12	4	8	1,750
33	Primary metal industries.....	117	47	36	11	102	70	32	3,162
34	Fabricated metal products.....	8	1	1	(1)	7	7	(1)	889
35	Machinery, except electrical.....	2	...	...	...	2	2	...	200
37	Transportation equipment.....	15	...	...	...	15	15	...	306
39	Miscellaneous manufactures.....	(1)	(1)	(1)	(1)	(1)	(1)	...	(1)
	Arkansas.....	757	448	296	152	514	309	205	1,212
20	Food and kindred products.....	70	8	3	5	63	62	1	761
22	Textile mill products.....	6	...	...	...	6	6	...	286
24	Lumber and wood products.....	128	73	35	38	80	55	25	631
25	Furniture and fixtures.....	20	2	2	(1)	19	18	1	476
26	Pulp, paper and products.....	66	43	37	6	67	23	44	1,886
27	Printing and publishing.....	4	(1)	...	(1)	4	4	...	235
28	Chemicals and products.....	216	163	92	71	183	53	130	5,143
29	Petroleum and coal products.....	23	16	1	15	7	7	...	2,091
31	Leather and leather products.....	2	(1)	(1)	(1)	2	2	...	59
32	Stone, clay, and glass products.....	25	3	1	2	23	22	1	1,087
33	Primary metal industries.....	139	125	124	1	17	14	3	6,318
34	Fabricated metal products.....	5	(1)	...	(1)	5	5	...	313
35	Machinery, except electrical.....	25	(1)	...	(1)	25	25	...	6,250
36	Electrical machinery.....	3	...	...	...	3	3	...	214
37	Transportation equipment.....	1	(1)	(1)	...	1	1	(1)	250
	California.....	5,933	1,279	389	890	4,927	4,654	273	821
20	Food and kindred products.....	726	123	52	71	665	603	62	715
21	Tobacco manufactures.....	(1)	...	...	...	(1)	(1)	...	(1)
22	Textile mill products.....	18	4	3	1	18	14	4	409
24	Lumber and wood products.....	640	267	91	176	437	373	64	1,285
25	Furniture and fixtures.....	49	(1)	(1)	(1)	49	49	...	263
26	Pulp, paper and products.....	186	70	57	13	176	116	60	1,127
27	Printing and publishing.....	66	2	1	1	64	64	...	214
28	Chemicals and products.....	415	55	15	40	364	360	4	2,005
29	Petroleum and coal products.....	956	507	44	463	497	449	48	6,593
30	Rubber products.....	161	19	16	3	149	142	7	1,220
31	Leather and leather products.....	11	(1)	(1)	(1)	11	11	...	216
32	Stone, clay, and glass products.....	404	77	55	22	347	327	20	1,480
33	Primary metal industries.....	737	75	15	60	662	662	...	2,275
34	Fabricated metal products.....	357	18	7	11	339	339	(1)	624
35	Machinery, except electrical.....	306	12	3	9	294	294	(1)	599
36	Electrical machinery.....	105	7	2	5	102	98	4	280
37	Transportation equipment.....	639	33	18	15	606	606	(1)	324
38	Instruments and related products.....	21	(1)	(1)	...	21	21	...	221
39	Miscellaneous manufactures.....	136	10	10	(1)	126	126	(1)	402
	Colorado.....	385	163	117	46	312	222	90	834
20	Food and kindred products.....	106	51	30	21	94	55	39	893
24	Lumber and wood products.....	27	16	3	13	11	11	(1)	1,080
25	Furniture and fixtures.....	1	...	...	...	1	1	...	143
26	Pulp, paper and products.....	5	1	(1)	1	4	4	...	1,000
27	Printing and publishing.....	5	(1)	(1)	(1)	5	5	...	1,667

See footnotes at end of table.

MANUFACTURES—SUMMARY STATISTICS

Table 4.—HORSEPOWER OF POWER EQUIPMENT USED IN MANUFACTURING INDUSTRIES FOR STATES BY MAJOR INDUSTRY GROUP: 1954—Continued

Code No.	State and major industry group	Aggregate horsepower (Prime movers and electric motors driven by purchased energy) (1,000 hp)	Prime movers (1,000 hp)			Electric motors (1,000 hp)			Aggregate horsepower per 100 production workers
			Total	Driving generators	Not driving generators	Total	Driven by purchased energy	Driven by energy generated at establishment	
Colorado—Continued									
28	Chemicals and products.....	34	14	11	3	33	20	13	1,889
29	Petroleum and coal products.....	22	12	7	5	11	10	1	3,143
32	Stone, clay, and glass products.....	36	9	7	2	37	27	10	1,565
33	Primary metal industries.....	62	47	47	(1)	27	15	12	886
34	Fabricated metal products.....	18	1	1	(1)	17	17	(1)	947
35	Machinery, except electrical.....	25	1	1	...	24	24	...	735
36	Electrical machinery.....	1	(1)	(1)	(1)	1	1	...	143
37	Transportation equipment.....	2	...	...	...	2	2	...	333
38	Instruments and related products.....	1	...	...	...	1	1	...	250
39	Miscellaneous manufactures.....	3	...	...	...	3	3	...	130
	Connecticut.....	1,703	306	235	71	1,608	1,397	211	550
20	Food and kindred products.....	30	2	1	1	28	28	(1)	411
22	Textile mill products.....	118	70	64	6	85	48	37	513
24	Lumber and wood products.....	6	1	(1)	1	5	5	(1)	500
25	Furniture and fixtures.....	6	(1)	...	(1)	6	6	...	286
26	Pulp, paper and products.....	66	32	22	10	58	34	24	971
27	Printing and publishing.....	20	(1)	(1)	(1)	20	20	...	227
28	Chemicals and products.....	83	21	20	1	65	62	3	1,239
29	Petroleum and coal products.....	16	8	...	8	8	8	...	4,000
30	Rubber products.....	69	10	6	4	61	59	2	663
31	Leather and leather products.....	3	(1)	(1)	(1)	3	3	...	136
32	Stone, clay, and glass products.....	25	1	(1)	1	24	24	...	658
33	Primary metal products.....	376	86	75	11	394	290	104	1,656
34	Fabricated metal industries.....	170	13	10	3	165	157	8	474
35	Machinery, except electrical.....	256	8	7	1	248	248	(1)	441
36	Electrical machinery.....	53	3	1	2	57	50	7	215
37	Transportation equipment.....	226	28	9	19	200	198	2	458
38	Instruments and related products.....	22	1	1	(1)	21	21	(1)	182
	Delaware.....	297	93	71	22	249	204	45	1,054
20	Food and kindred products.....	24	3	(1)	3	21	21	...	1,090
22	Textile mill products.....	15	10	9	1	22	5	17	682
24	Lumber and wood products.....	6	4	2	2	2	2	...	667
26	Pulp, paper and products.....	10	(1)	...	(1)	10	10	...	1,429
27	Printing and publishing.....	2	(1)	(1)	(1)	2	2	...	222
28	Chemicals and products.....	83	52	48	4	58	31	27	1,976
29	Petroleum and coal products.....	2	(1)	...	(1)	2	2	...	2,000
31	Leather and leather products.....	8	2	1	1	7	6	1	471
32	Stone, clay, and glass products.....	10	2	1	1	8	8	...	2,500
33	Primary metal industries.....	63	17	9	8	46	46	...	143
34	Fabricated metal products.....	5	(1)	(1)	...	5	5	...	500
35	Machinery, except electrical.....	13	1	1	(1)	12	12	(1)	619
36	Electrical machinery.....	(1)	...	...	...	(1)	(1)	...	(1)
	District of Columbia.....	56	5	2	3	51	51	...	496
20	Food and kindred products.....	41	5	2	3	36	36	(1)	1,206
24	Lumber and wood products.....	1	...	...	...	1	1	...	1,000
25	Furniture and fixtures.....	(1)	...	...	...	(1)	(1)	...	(1)
27	Printing and publishing.....	10	(1)	(1)	(1)	10	10	...	167
28	Chemicals and products.....	1	...	...	...	1	1	...	1,000
32	Stone, clay, and glass products.....	1	(1)	...	(1)	1	1	...	1,000
35	Machinery, except electrical.....	(1)	...	...	...	(1)	(1)	...	(1)
36	Electrical machinery.....	(1)	...	...	...	(1)	(1)	...	(1)
39	Miscellaneous manufactures.....	(1)	...	...	...	(1)	(1)	...	(1)
	Florida.....	856	416	299	117	747	440	307	932
20	Food and kindred products.....	188	49	30	19	152	139	13	895
21	Tobacco manufactures.....	2	(1)	(1)	...	2	2	...	23
22	Textile mill products.....	2	...	...	...	2	2	...	500
24	Lumber and wood products.....	74	47	15	32	31	27	4	510
25	Furniture and fixtures.....	6	(1)	(1)	...	6	6	...	158
26	Pulp, paper and products.....	329	275	231	44	329	54	275	3,427
27	Printing and publishing.....	43	(1)	(1)	(1)	43	43	...	827
28	Chemicals and products.....	114	28	14	14	100	86	14	1,583
29	Petroleum and coal products.....	3	1	1	(1)	2	2	...	1,500
30	Rubber products.....	(1)	...	...	...	(1)	(1)	...	(1)
31	Leather and leather products.....	(1)	...	...	...	(1)	(1)	...	(1)
32	Stone, clay, and glass products.....	30	5	1	4	25	25	(1)	714
33	Primary metal industries.....	2	...	(1)	(1)	2	2	...	286
34	Fabricated metal products.....	23	1	1	(1)	22	22	(1)	390
35	Machinery, except electrical.....	8	(1)	(1)	(1)	8	8	...	421
36	Electrical machinery.....	1	...	...	...	1	1	...	143
37	Transportation equipment.....	28	10	6	4	19	18	1	583
38	Instruments and related products.....	(1)	...	...	...	(1)	(1)	...	(1)
39	Miscellaneous manufactures.....	3	(1)	...	(1)	3	3	...	167

See footnotes at end of table.

HORSEPOWER OF POWER EQUIPMENT

207-15

Table 4.—HORSEPOWER OF POWER EQUIPMENT USED IN MANUFACTURING INDUSTRIES FOR STATES BY MAJOR INDUSTRY GROUP: 1954—Continued

Code No.	State and major industry group	Aggregate horsepower (Prime movers and electric motors driven by purchased energy) (1,000 hp)	Prime movers (1,000 hp)			Electric motors (1,000 hp)			Aggregate horsepower per 100 production workers
			Total	Driving generators	Not driving generators	Total	Driven by purchased energy	Driven by energy generated at establishment	
	Georgia.....	1,495	443	340	103	1,321	1,052	269	662
20	Food and kindred products.....	105	13	7	6	96	92	4	434
22	Textile mill products.....	513	58	50	8	486	455	31	531
24	Lumber and wood products.....	119	60	22	38	61	59	2	399
25	Furniture and fixtures.....	20	1	(1)	1	19	19	...	328
26	Pulp, paper and products.....	341	248	230	18	301	93	208	3,045
27	Printing and publishing.....	8	(1)	...	(1)	8	8	...	154
28	Chemicals and products.....	118	30	20	10	105	88	17	1,573
29	Petroleum and coal products.....	4	1	...	1	3	3	...	1,000
30	Rubber products.....	3	(1)	...	(1)	3	3	...	750
31	Leather and leather products.....	5	(1)	(1)	...	5	5	...	227
32	Stone, clay, and glass products.....	77	23	10	13	60	54	6	1,262
33	Primary metal industries.....	37	2	(1)	2	35	35	...	1,762
34	Fabricated metal products.....	16	2	1	1	14	14	...	364
35	Machinery, except electrical.....	39	1	(1)	1	38	38	...	696
36	Electrical machinery.....	16	1	(1)	1	16	15	1	842
37	Transportation equipment.....	68	3	(1)	3	65	65	...	398
	Idaho.....	347	140	90	50	252	207	45	1,718
20	Food and kindred products.....	44	22	19	3	41	22	19	830
24	Lumber and wood products.....	174	93	55	38	99	81	18	1,641
27	Printing and publishing.....	1	(1)	(1)	(1)	1	1	...	167
28	Chemicals and products.....	21	1	(1)	1	20	20	...	3,500
32	Stone, clay, and glass products.....	8	3	(1)	3	5	5	...	2,667
34	Fabricated metal products.....	4	...	...	...	4	4	...	1,333
35	Machinery, except electrical.....	(1)	...	...	...	(1)	(1)	...	(1)
37	Transportation equipment.....	(1)	...	...	...	(1)	(1)	...	(1)
39	Miscellaneous manufactures.....	(1)	...	...	...	(1)	(1)	...	(1)
	Illinois.....	6,690	1,630	1,024	606	6,027	5,060	967	783
20	Food and kindred products.....	715	200	139	61	620	515	105	692
21	Tobacco manufactures.....	2	2	2	...	1	(1)	1	400
22	Textile mill products.....	28	5	4	1	28	23	5	341
24	Lumber and wood products.....	61	11	4	7	51	50	1	598
25	Furniture and fixtures.....	72	6	5	1	68	66	2	323
26	Pulp, paper and products.....	172	74	56	18	171	98	73	702
27	Printing and publishing.....	136	11	7	4	125	125	...	221
28	Chemicals and products.....	492	133	87	46	402	359	43	1,473
29	Petroleum and coal products.....	520	336	74	262	262	184	78	4,094
30	Rubber products.....	40	(1)	(1)	(1)	40	40	...	833
31	Leather and leather products.....	36	4	3	1	34	32	2	180
32	Stone, clay, and glass products.....	266	110	84	26	243	156	87	967
33	Primary metal industries.....	1,608	508	408	100	1,527	1,100	427	2,113
34	Fabricated metal products.....	528	43	25	18	502	485	17	550
35	Machinery, except electrical.....	1,042	97	69	28	992	945	47	687
36	Electrical machinery.....	204	52	42	10	206	152	54	193
37	Transportation equipment.....	427	16	4	12	417	411	6	1,115
38	Instruments and related products.....	173	10	9	1	169	163	6	733
39	Miscellaneous manufactures.....	168	12	2	10	169	156	13	432
	Indiana.....	4,911	1,602	967	635	4,937	3,309	1,628	1,107
20	Food and kindred products.....	215	47	30	17	207	168	39	629
21	Tobacco manufactures.....	(1)	(1)	(1)	...	(1)	(1)	(1)	(1)
22	Textile mill products.....	3	1	1	(1)	2	2	...	143
24	Lumber and wood products.....	43	6	2	4	38	37	1	478
25	Furniture and fixtures.....	74	6	4	2	70	68	2	398
26	Pulp, paper and products.....	72	31	28	3	66	41	25	960
27	Printing and publishing.....	25	2	2	(1)	23	23	...	217
28	Chemicals and products.....	372	221	158	63	308	151	157	2,125
29	Petroleum and coal products.....	393	310	130	180	232	83	149	3,359
30	Rubber products.....	86	3	1	2	83	83	...	729
31	Leather and leather products.....	3	1	1	...	3	2	1	150
32	Stone, clay, and glass products.....	244	68	45	23	221	176	45	1,196
33	Primary metal industries.....	2,034	796	528	268	2,425	1,238	1,187	2,802
34	Fabricated metal products.....	207	13	4	9	194	194	(1)	639
35	Machinery, except electrical.....	272	14	3	11	258	258	(1)	577
36	Electrical machinery.....	183	5	(1)	5	178	178	...	332
37	Transportation equipment.....	612	65	28	37	567	547	20	863
38	Instruments and related products.....	5	...	...	...	5	5	...	227
39	Miscellaneous manufactures.....	68	13	2	11	57	55	2	428
	Iowa.....	906	256	186	70	887	650	237	760
20	Food and kindred products.....	241	88	61	27	244	153	91	646
22	Textile mill products.....	2	1	1	...	1	1	(1)	500
24	Lumber and wood products.....	23	9	7	2	24	14	10	523

See footnotes at end of table.

Table 4.—HORSEPOWER OF POWER EQUIPMENT USED IN MANUFACTURING INDUSTRIES FOR STATES BY MAJOR INDUSTRY GROUP: 1954—Continued

Code No.	State and major industry group	Aggregate horsepower (Prime movers and electric motors driven by purchased energy) (1,000 hp)	Prime movers (1,000 hp)			Electric motors (1,000 hp)			Aggregate horsepower per 100 production workers
			Total	Driving generators	Not driving generators	Total	Driven by purchased energy	Driven by energy generated at establishment	
	Iowa—Continued								
25	Furniture and fixtures.....	8	...	...	...	8	8	...	421
26	Pulp, paper and products.....	16	7	4	3	17	9	8	941
27	Printing and publishing.....	13	1	1	(1)	12	12	...	200
28	Chemicals and products.....	55	11	7	4	55	44	11	1,250
29	Petroleum and coal products.....	(1)	...	...	...	(1)	(1)	...	(1)
30	Rubber products.....	29	1	(1)	1	28	28	...	1,000
31	Leather and leather products.....	(1)	...	...	...	(1)	(1)	...	(1)
32	Stone, clay, and glass products.....	125	52	31	21	100	73	27	2,778
33	Primary metal industries.....	119	24	22	2	98	95	3	2,587
34	Fabricated metal products.....	20	1	1	(1)	19	19	...	435
35	Machinery, except electrical.....	178	45	36	9	211	133	78	704
36	Electrical machinery.....	9	(1)	(1)	(1)	9	9	...	129
37	Transportation equipment.....	25	1	(1)	1	24	24	...	641
38	Instruments and related products.....	2	...	...	...	2	2	...	143
39	Miscellaneous manufactures.....	41	15	15	(1)	35	26	9	562
	Kansas.....	857	307	102	205	661	550	111	892
20	Food and kindred products.....	165	48	31	17	124	117	7	994
24	Lumber and wood products.....	5	(1)	(1)	(1)	5	5	(1)	500
25	Furniture and fixtures.....	1	...	...	...	1	1	...	200
26	Pulp, paper and products.....	10	5	3	2	9	5	4	667
27	Printing and publishing.....	6	(1)	(1)	(1)	6	6	...	120
28	Chemicals and products.....	201	82	13	69	175	119	56	2,831
29	Petroleum and coal products.....	168	105	8	97	70	63	7	5,091
31	Leather and leather products.....	(1)	...	...	...	(1)	(1)	...	(1)
32	Stone, clay, and glass products.....	105	49	37	12	93	56	37	2,442
33	Primary metal industries.....	4	...	...	...	4	4	...	571
34	Fabricated metal products.....	19	1	(1)	1	18	18	...	442
35	Machinery, except electrical.....	34	(1)	(1)	(1)	34	34	...	540
37	Transportation equipment.....	103	17	10	7	86	86	(1)	251
38	Instruments and related products.....	(1)	...	...	...	(1)	(1)	...	(1)
39	Miscellaneous manufactures.....	7	...	...	...	7	7	...	467
	Kentucky.....	1,738	181	50	131	1,583	1,557	26	1,687
20	Food and kindred products.....	126	26	13	13	107	100	7	674
21	Tobacco manufactures.....	29	2	(1)	2	27	27	(1)	302
22	Textile mill products.....	9	(1)	...	(1)	9	9	...	273
24	Lumber and wood products.....	64	24	14	10	40	40	(1)	842
25	Furniture and fixtures.....	14	4	3	1	10	10	(1)	341
26	Pulp, paper and products.....	2	...	...	...	2	2	...	222
27	Printing and publishing.....	10	(1)	(1)	(1)	10	10	...	200
28	Chemicals and products.....	927	66	8	58	873	861	12	14,484
29	Petroleum and coal products.....	41	23	8	15	24	18	6	3,727
31	Leather and leather products.....	3	(1)	...	(1)	3	3	(1)	130
32	Stone, clay, and glass products.....	25	4	(1)	4	21	21	(1)	658
33	Primary metal industries.....	225	23	(1)	23	202	202	...	4,245
34	Fabricated metal products.....	73	7	3	4	67	66	1	682
35	Machinery, except electrical.....	144	2	1	1	142	142	(1)	1,385
36	Electrical machinery.....	12	(1)	(1)	(1)	12	12	...	162
37	Transportation equipment.....	9	(1)	(1)	(1)	9	9	...	346
38	Instruments and related products.....	2	(1)	...	(1)	2	2	...	222
	Louisiana.....	2,827	2,050	1,228	822	1,404	777	627	2,598
20	Food and kindred products.....	221	139	61	78	116	82	34	1,018
24	Lumber and wood products.....	125	77	32	45	59	48	11	706
25	Furniture and fixtures.....	3	(1)	(1)	...	3	3	...	273
26	Pulp, paper and products.....	389	270	213	57	434	119	315	2,628
27	Printing and publishing.....	7	(1)	(1)	(1)	7	7	...	241
28	Chemicals and products.....	713	544	231	313	307	169	138	5,570
29	Petroleum and coal products.....	628	445	138	307	287	183	104	7,136
31	Leather and leather products.....	...	...	...	...	...	...	...	...
32	Stone, clay, and glass products.....	48	3	2	1	48	45	3	1,200
33	Primary metal industries.....	539	534	534	(1)	27	5	22	16,844
34	Fabricated metal products.....	25	4	3	1	21	21	...	658
35	Machinery, except electrical.....	21	12	1	11	9	9	...	1,050
37	Transportation equipment.....	51	17	12	5	34	34	...	607
38	Instruments and related products.....	(1)	...	...	...	(1)	(1)	...	(1)
	Maine.....	999	538	409	129	889	461	428	1,130
20	Food and kindred products.....	35	7	1	6	28	28	...	407
22	Textile mill products.....	105	49	40	9	85	56	29	597
24	Lumber and wood products.....	83	31	11	20	54	52	2	519
25	Furniture and fixtures.....	4	1	1	...	4	3	1	666
26	Pulp, paper and products.....	658	442	354	88	612	216	396	439
27	Printing and publishing.....	2	...	...	...	2	2	...	166
28	Chemicals and products.....	6	2	1	1	4	4	...	1,500

See footnotes at end of table.

Table 4.—HORSEPOWER OF POWER EQUIPMENT USED IN MANUFACTURING INDUSTRIES FOR STATES BY MAJOR INDUSTRY GROUP: 1954—Continued

Code No.	State and major industry group	Aggregate horsepower (Prime movers and electric motors driven by purchased energy) (1,000 hp)	Prime movers (1,000 hp)			Electric motors (1,000 hp)			Aggregate horsepower per 100 production workers
			Total	Driving generators	Not driving generators	Total	Driven by purchased energy	Driven by energy generated at establishment	
Maine—Continued									
31	Leather and leather products.....	19	(¹)	(¹)	...	19	19	(¹)	106
32	Stone, clay, and glass products.....	21	4	1	3	17	17	...	328
33	Primary metal industries.....	(¹)	...	...	...	(¹)	(¹)	...	(¹)
34	Fabricated metal products.....	12	1	...	1	11	11	(¹)	600
35	Machinery, except electrical.....	24	(¹)	...	(¹)	24	24	...	889
36	Electrical machinery.....	3	...	...	...	3	3	...	500
37	Transportation equipment.....	20	1	(¹)	1	19	19	(¹)	625
Maryland.....		1,540	559	344	215	1,824	981	843	883
20	Food and kindred products.....	108	19	11	8	100	89	11	388
22	Textile mill products.....	12	1	1	(¹)	11	11	(¹)	333
24	Lumber and wood products.....	18	8	2	6	10	10	...	419
25	Furniture and fixtures.....	7	...	...	...	7	7	...	200
26	Pulp, paper and products.....	164	65	59	6	130	99	31	2,603
27	Printing and publishing.....	9	(¹)	(¹)	...	9	9	...	125
28	Chemicals and products.....	167	27	14	13	163	140	23	1,876
29	Petroleum and coal products.....	82	52	14	38	44	30	14	3,280
30	Rubber products.....	47	13	10	3	45	34	11	940
31	Leather and leather products.....	5	1	1	...	4	4	...	217
32	Stone, clay, and glass products.....	78	20	17	3	72	58	14	1,322
33	Primary metal industries.....	556	340	208	132	954	216	738	2,059
34	Fabricated metal products.....	60	1	(¹)	1	59	59	...	432
35	Machinery, except electrical.....	43	1	...	1	42	42	...	531
36	Electrical machinery.....	22	(¹)	(¹)	(¹)	22	22	...	268
37	Transportation equipment.....	144	9	5	4	135	135	...	465
38	Instruments and related products.....	1	(¹)	(¹)	...	1	1	...	100
Massachusetts.....		2,579	577	483	94	2,299	2,002	297	536
20	Food and kindred products.....	133	30	21	9	128	103	25	420
21	Tobacco manufactures.....	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	...	(¹)
22	Textile mill products.....	416	149	144	5	330	267	63	665
24	Lumber and wood products.....	35	5	2	3	30	30	(¹)	714
25	Furniture and fixtures.....	26	4	3	1	28	22	6	243
26	Pulp, paper and products.....	280	98	81	17	277	182	95	1,011
27	Printing and publishing.....	38	2	1	1	36	36	...	158
28	Chemicals and products.....	109	14	8	6	103	95	8	1,090
29	Petroleum and coal products.....	39	8	2	6	34	31	3	2,294
30	Rubber products.....	182	14	10	4	170	168	2	929
31	Leather and leather products.....	107	24	21	3	97	83	14	183
32	Stone, clay, and glass products.....	73	17	11	6	72	56	16	973
33	Primary metal industries.....	216	17	1	16	200	199	1	1,394
34	Fabricated metal products.....	131	7	5	2	127	124	3	455
35	Machinery, except electrical.....	356	119	113	6	271	237	34	635
36	Electrical machinery.....	192	42	40	2	167	150	17	339
37	Transportation equipment.....	98	8	4	4	92	90	2	554
38	Instruments and related products.....	35	14	14	(¹)	28	21	7	265
39	Miscellaneous manufactures.....	113	5	2	3	109	108	1	327
Michigan.....		7,295	1,876	1,367	509	6,326	5,419	907	913
20	Food and kindred products.....	199	27	19	8	200	172	28	510
21	Tobacco manufactures.....	1	...	...	...	1	1	...	200
22	Textile mill products.....	11	2	2	(¹)	9	9	(¹)	379
24	Lumber and wood products.....	77	28	12	16	56	49	7	606
25	Furniture and fixtures.....	60	12	10	2	55	48	7	351
26	Pulp, paper and products.....	425	277	256	21	384	148	236	1,742
27	Printing and publishing.....	32	1	1	(¹)	31	31	...	192
28	Chemicals and products.....	575	383	326	57	375	192	183	2,186
29	Petroleum and coal products.....	97	26	4	22	71	71	(¹)	3,129
30	Rubber products.....	101	33	29	4	94	68	26	1,010
31	Leather and leather products.....	13	1	1	...	12	12	...	351
32	Stone, clay, and glass products.....	183	103	91	12	161	80	81	1,280
33	Primary metal industries.....	1,157	93	9	84	1,071	1,064	7	1,750
34	Fabricated metal products.....	484	25	14	11	468	459	9	644
35	Machinery, except electrical.....	683	38	27	11	669	645	24	529
36	Electrical machinery.....	58	5	5	(¹)	59	53	6	367
37	Transportation equipment.....	3,013	815	558	257	2,491	2,198	293	950
38	Instruments and related products.....	10	(¹)	(¹)	...	10	10	(¹)	147
39	Miscellaneous manufactures.....	116	7	3	4	109	109	(¹)	624
Minnesota.....		1,071	356	251	105	919	715	204	756
20	Food and kindred products.....	322	111	68	43	253	211	42	902
22	Textile mill products.....	7	3	2	1	5	4	1	333
24	Lumber and wood products.....	41	14	2	12	29	27	2	554
25	Furniture and fixtures.....	6	(¹)	(¹)	(¹)	6	6	(¹)	286
26	Pulp, paper and products.....	259	136	125	11	218	123	95	2,421

See footnotes at end of table.

MANUFACTURES—SUMMARY STATISTICS

Table 4.—HORSEPOWER OF POWER EQUIPMENT USED IN MANUFACTURING INDUSTRIES FOR STATES BY MAJOR INDUSTRY GROUP: 1954—Continued

Code No.	State and major industry group	Aggregate horsepower (Prime movers and electric motors driven by purchased energy) (1,000 hp)	Prime movers (1,000 hp)			Electric motors (1,000 hp)			Aggregate horsepower per 100 production workers
			Total	Driving generators	Not driving generators	Total	Driven by purchased energy	Driven by energy generated at establishment	
Minnesota—Continued									
27	Printing and publishing.....	19	3	3	(1)	16	16	...	164
28	Chemicals and products.....	42	1	(1)	1	41	41	...	1,200
29	Petroleum and coal products.....	30	8	(1)	8	23	22	1	2,727
30	Rubber products.....	4	...	...	...	4	4	...	800
31	Leather and leather products.....	3	...	...	...	3	3	...	231
32	Stone, clay, and glass products.....	46	6	(1)	6	40	40	(1)	1,122
33	Primary metal industries.....	68	42	29	13	77	26	51	1,478
34	Fabricated metal products.....	36	1	(1)	1	35	35	(1)	468
35	Machinery, except electrical.....	73	3	1	2	71	70	1	420
36	Electrical machinery.....	14	1	(1)	1	13	13	(1)	280
37	Transportation equipment.....	29	18	18	(1)	21	11	10	537
Mississippi.....		570	229	141	88	504	341	163	927
20	Food and kindred products.....	32	3	1	2	30	29	1	432
22	Textile mill products.....	20	3	(1)	3	17	17	...	408
24	Lumber and wood products.....	116	61	27	34	64	55	9	589
25	Furniture and fixtures.....	11	1	(1)	1	10	10	...	393
26	Pulp, paper and products.....	149	102	87	15	180	47	133	2,129
27	Printing and publishing.....	1	(1)	...	(1)	1	1	...	83
28	Chemicals and products.....	143	50	23	27	113	93	20	3,178
29	Petroleum and coal products.....	4	3	1	2	1	1	...	4,000
32	Stone, clay, and glass products.....	28	5	1	4	23	23	...	1,333
33	Primary metal industries.....	(1)	...	...	...	(1)	(1)	...	(1)
34	Fabricated metal products.....	7	1	1	(1)	6	6	(1)	467
35	Machinery, except electrical.....	6	(1)	(1)	(1)	6	6	...	500
36	Electrical machinery.....	2	(1)	...	(1)	2	2	...	222
37	Transportation equipment.....	38	(1)	(1)	...	38	38	...	655
39	Miscellaneous manufactures.....	1	(1)	...	(1)	1	1	...	250
Missouri.....		1,660	309	209	100	1,500	1,351	149	657
20	Food and kindred products.....	284	86	65	21	245	198	47	782
22	Textile mill products.....	2	(1)	(1)	(1)	2	2	...	74
24	Lumber and wood products.....	43	15	6	9	30	28	2	768
25	Furniture and fixtures.....	17	1	1	(1)	16	16	(1)	298
26	Pulp, paper and products.....	62	4	4	(1)	59	58	1	697
27	Printing and publishing.....	25	1	1	(1)	24	24	...	159
28	Chemicals and products.....	162	81	63	18	127	81	46	1,446
29	Petroleum and coal products.....	73	61	33	28	38	12	26	3,042
30	Rubber products.....	7	(1)	...	(1)	7	7	...	1,167
31	Leather and leather products.....	29	5	5	(1)	26	24	2	86
32	Stone, clay, and glass products.....	181	26	14	12	173	155	18	1,534
33	Primary metal industries.....	149	11	5	6	142	138	4	1,367
34	Fabricated metal products.....	91	6	4	2	86	85	1	472
35	Machinery, except electrical.....	89	4	3	1	85	85	(1)	509
36	Electrical machinery.....	129	2	1	1	127	127	(1)	787
37	Transportation equipment.....	215	3	1	2	213	212	1	632
38	Instruments and related products.....	4	(1)	(1)	(1)	4	4	...	190
Montana.....		438	128	25	103	332	310	22	3,065
20	Food and kindred products.....	33	15	9	6	29	18	11	1,137
24	Lumber and wood products.....	106	61	12	49	56	45	11	1,893
27	Printing and publishing.....	1	(1)	(1)	...	1	1	...	100
28	Chemicals and products.....	17	(1)	(1)	...	17	17	...	3,400
30	Rubber products.....	...	...	...	...	...	...	...	...
32	Stone, clay, and glass products.....	16	1	...	1	15	15	...	4,000
34	Fabricated metal products.....	(1)	(1)	...	(1)	(1)	(1)	...	(1)
35	Machinery, except electrical.....	1	...	...	...	1	1	...	1,000
37	Transportation equipment.....	(1)	(1)	...	(1)	(1)	(1)	...	(1)
38	Instruments and related products.....	...	...	...	...	...	...	...	...
39	Miscellaneous manufactures.....	(1)	...	...	...	(1)	(1)	...	(1)
Nebraska.....		307	47	19	28	277	260	17	730
20	Food and kindred products.....	150	27	9	18	132	123	9	728
24	Lumber and wood products.....	6	(1)	...	(1)	6	6	(1)	667
25	Furniture and fixtures.....	3	...	(1)	(1)	3	3	...	375
27	Printing and publishing.....	5	(1)	(1)	(1)	5	5	...	172
28	Chemicals and products.....	26	4	(1)	4	22	22	...	2,363
32	Stone, clay, and glass products.....	29	8	5	3	29	21	8	2,900
33	Primary metal industries.....	5	...	...	...	5	5	...	1,000
34	Fabricated metal products.....	23	1	(1)	1	22	22	...	1,150
35	Machinery, except electrical.....	25	7	5	2	18	18	...	1,000
36	Electrical machinery.....	1	...	...	...	1	1	...	1,000
37	Transportation equipment.....	8	(1)	...	(1)	8	8	...	889
39	Miscellaneous manufactures.....	16	(1)	(1)	(1)	16	16	(1)	3,200

See footnotes at end of table.

HORSEPOWER OF POWER EQUIPMENT

207-19

Table 4.—HORSEPOWER OF POWER EQUIPMENT USED IN MANUFACTURING INDUSTRIES FOR STATES BY MAJOR INDUSTRY GROUP: 1954—Continued

Code No.	State and major industry group	Aggregate horsepower (Prime movers and electric motors driven by purchased energy) (1,000 hp)	Prime movers (1,000 hp)			Electric motors (1,000 hp)			Aggregate horsepower per 100 production workers
			Total	Driving generators	Not driving generators	Total	Driven by purchased energy	Driven by energy generated at establishment	
	Nevada.....	153	84	68	16	76	69	7	3,457
20	Food and kindred products.....	2	(1)	...	(1)	2	2	...	400
24	Lumber and wood products.....	6	(1)	...	(1)	6	6	...	1,500
27	Printing and publishing.....	1	...	...	...	1	1	...	333
32	Stone, clay, and glass products.....	23	8	1	7	15	15	(1)	2,875
33	Primary metal industries.....	79	76	67	9	10	3	7	6,583
	New Hampshire.....	419	120	33	87	335	299	36	645
20	Food and kindred products.....	6	(1)	(1)	(1)	6	6	...	375
22	Textile mill products.....	114	17	17	(1)	107	97	10	919
24	Lumber and wood products.....	41	13	6	7	30	28	2	745
25	Furniture and fixtures.....	4	...	...	...	4	4	...	250
26	Pulp, paper and products.....	159	86	8	78	96	73	23	3,000
27	Printing and publishing.....	4	(1)	(1)	(1)	4	4	(1)	182
28	Chemicals and products.....	11	...	...	...	11	11	...	5,500
30	Rubber products.....	2	...	...	...	2	2	(1)	500
31	Leather and leather products.....	25	1	1	(1)	24	24	(1)	130
32	Stone, clay, and glass products.....	8	1	(1)	1	7	7	...	615
33	Primary metal industries.....	2	...	...	...	2	2	...	500
34	Fabricated metal products.....	7	(1)	(1)	(1)	7	7	(1)	438
35	Machinery, except electrical.....	21	1	(1)	1	20	20	(1)	420
36	Electrical machinery.....	12	(1)	(1)	(1)	12	12	...	222
39	Miscellaneous manufactures.....	3	1	1	...	3	2	1	167
	New Jersey.....	3,605	955	671	284	3,232	2,650	582	677
20	Food and kindred products.....	204	37	21	16	187	167	20	500
21	Tobacco manufactures.....	3	(1)	(1)	(1)	3	3	...	86
22	Textile mill products.....	256	68	60	8	224	188	36	643
24	Lumber and wood products.....	18	3	1	2	15	15	(1)	409
25	Furniture and fixtures.....	14	(1)	(1)	(1)	14	14	...	206
26	Pulp, paper and products.....	277	116	108	8	238	161	77	1,358
27	Printing and publishing.....	37	(1)	...	(1)	37	37	...	216
28	Chemicals and products.....	580	158	114	44	562	422	140	1,107
29	Petroleum and coal products.....	344	271	145	126	235	73	162	2,867
30	Rubber products.....	113	6	3	3	108	107	1	1,027
31	Leather and leather products.....	19	3	3	(1)	16	16	(1)	188
32	Stone, clay, and glass products.....	184	34	24	10	161	150	11	716
33	Primary metal industries.....	367	101	82	19	351	266	85	1,248
34	Fabricated metal products.....	202	17	13	4	189	185	4	481
35	Machinery, except electrical.....	255	20	16	4	249	235	14	510
36	Electrical machinery.....	253	74	67	7	210	179	31	329
37	Transportation equipment.....	302	40	10	30	262	262	...	757
38	Instruments and related products.....	63	2	1	1	61	61	(1)	356
39	Miscellaneous manufactures.....	114	5	3	2	110	109	1	352
	New Mexico.....	70	23	8	15	49	47	2	872
20	Food and kindred products.....	11	(1)	(1)	...	11	11	...	200
24	Lumber and wood products.....	22	13	3	10	11	9	2	4,400
25	Furniture and fixtures.....	(1)	...	...	...	(1)	(1)	...	(1)
27	Printing and publishing.....	1	(1)	(1)	...	1	1	...	91
28	Chemicals and products.....	15	5	2	3	10	10	(1)	1,875
29	Petroleum and coal products.....	10	4	3	1	6	6	...	714
32	Stone, clay, and glass products.....	3	1	(1)	1	2	2	...	231
33	Primary metal industries.....	4	...	...	...	4	4	...	61
34	Fabricated metal products.....	1	(1)	(1)	(1)	1	1	...	67
35	Machinery, except electrical.....	(1)	...	...	...	(1)	(1)	...	(1)
36	Electrical machinery.....	(1)	...	...	...	(1)	(1)	...	(1)
39	Miscellaneous manufactures.....	3	...	...	...	3	3	...	1,000
	New York.....	6,989	1,370	681	689	6,416	5,619	797	620
20	Food and kindred products.....	623	90	50	40	589	533	56	596
21	Tobacco manufactures.....	1	...	...	...	1	1	...	91
22	Textile mill products.....	184	41	35	6	171	143	28	324
24	Lumber and wood products.....	95	25	11	14	71	70	1	625
25	Furniture and fixtures.....	82	8	6	2	80	74	6	260
26	Pulp, paper and products.....	603	204	138	66	555	399	156	1,125
27	Printing and publishing.....	115	3	1	2	112	112	...	123
28	Chemicals and products.....	632	280	121	159	457	352	105	1,365
29	Petroleum and coal products.....	136	55	14	41	95	81	14	3,022
30	Rubber products.....	81	11	7	4	79	70	9	1,052
31	Leather and leather products.....	70	9	7	2	63	61	2	127
32	Stone, clay, and glass products.....	311	53	37	16	290	258	32	1,016
33	Primary metal industries.....	1,279	288	97	191	1,219	991	228	2,076
34	Fabricated metal products.....	393	19	7	12	377	374	3	492
35	Machinery, except electrical.....	525	63	33	30	483	462	21	494

See footnotes at end of table.

MANUFACTURES--SUMMARY STATISTICS

Table 4.—HORSEPOWER OF POWER EQUIPMENT USED IN MANUFACTURING INDUSTRIES FOR STATES BY MAJOR INDUSTRY GROUP: 1954—Continued

Code No.	State and major industry group	Aggregate horsepower (Prime movers and electric motors driven by purchased energy) (1,000 hp)	Prime movers (1,000 hp)			Electric motors (1,000 hp)			Aggregate horsepower per 100 production workers
			Total	Driving generators	Not driving generators	Total	Driven by purchased energy	Driven by energy generated at establishment	
	New York--Continued								
36	Electrical machinery.....	298	15	7	8	284	283	1	320
37	Transportation equipment.....	580	51	17	34	532	529	3	527
38	Instruments and related products.....	721	136	83	53	714	585	129	1,247
39	Miscellaneous manufactures.....	260	19	10	9	244	241	3	204
	North Carolina.....	2,096	672	554	118	1,742	1,424	318	582
20	Food and kindred products.....	96	5	3	2	91	91	(1)	644
21	Tobacco manufactures.....	148	74	65	9	95	74	21	627
22	Textile mill products.....	909	93	83	10	851	816	35	433
24	Lumber and wood products.....	168	84	23	61	84	84	(1)	433
25	Furniture and fixtures.....	121	8	6	2	116	113	3	406
26	Pulp, paper and products.....	157	120	111	9	189	37	152	1,987
27	Printing and publishing.....	7	(1)	(1)	(1)	7	7	...	146
28	Chemicals and products.....	131	77	67	10	92	54	38	1,617
29	Petroleum and coal products.....	1	(1)	(1)	(1)	1	1	...	1,075
30	Rubber products.....	6	...	...	...	6	6	...	667
31	Leather and leather products.....	3	(1)	...	(1)	3	3	...	273
32	Stone, clay, and glass products.....	49	9	1	8	40	40	...	875
33	Primary metal industries.....	222	194	193	1	97	28	69	12,333
34	Fabricated metal products.....	14	(1)	(1)	(1)	14	14	(1)	368
35	Machinery, except electrical.....	20	(1)	(1)	(1)	20	20	...	400
36	Electrical machinery.....	27	8	2	6	19	19	...	375
38	Instruments and related products.....	3	...	...	...	3	3	...	50
	North Dakota.....	35	22	7	15	22	13	9	897
20	Food and kindred products.....	13	4	(1)	4	10	9	1	591
27	Printing and publishing.....	1	...	(1)	...	1	1	...	125
32	Stone, clay, and glass products.....	1	...	...	...	1	1	...	500
34	Fabricated metal products.....	(1)	...	...	...	(1)	(1)	...	(1)
35	Machinery, except electrical.....	1	...	...	...	1	1	...	1,000
37	Transportation equipment.....	(1)	...	...	...	(1)	(1)	...	(D)
39	Miscellaneous manufactures.....	(1)	...	...	...	(1)	(1)	...	(1)
	Ohio.....	11,400	3,621	1,880	1,741	9,674	7,779	1,895	1,184
20	Food and kindred products.....	327	53	24	29	296	274	22	631
21	Tobacco manufactures.....	2	...	...	...	2	2	...	154
22	Textile mill products.....	61	17	15	2	51	44	7	604
24	Lumber and wood products.....	50	11	4	7	49	39	10	595
25	Furniture and fixtures.....	59	3	3	(1)	60	56	4	339
26	Pulp, paper and products.....	473	231	214	17	435	242	193	1,648
27	Printing and publishing.....	75	9	8	1	66	66	...	195
28	Chemicals and products.....	1,632	879	255	624	971	753	218	5,787
29	Petroleum and coal products.....	436	216	28	188	243	220	23	4,404
30	Rubber products.....	485	183	159	24	522	302	220	883
31	Leather and leather products.....	18	2	2	(1)	17	16	1	161
32	Stone, clay, and glass products.....	448	119	76	43	405	329	76	813
33	Primary metal industries.....	3,942	1,690	993	697	3,303	2,252	1,051	2,664
34	Fabricated metal products.....	676	39	14	25	652	637	15	689
35	Machinery, except electrical.....	1,053	69	52	17	1,030	984	46	633
36	Electrical machinery.....	319	13	9	4	308	306	2	462
37	Transportation equipment.....	1,088	54	16	38	1,038	1,034	4	875
38	Instruments and related products.....	20	1	1	(1)	19	19	(1)	333
39	Miscellaneous manufactures.....	236	32	7	25	207	204	3	650
	Oklahoma.....	682	268	64	204	477	414	63	1,171
20	Food and kindred products.....	72	16	9	7	63	56	7	720
24	Lumber and wood products.....	19	9	6	3	10	10	(1)	1,188
25	Furniture and fixtures.....	3	...	...	...	3	3	...	231
26	Pulp, paper and products.....	10	...	...	...	10	10	...	2,500
27	Printing and publishing.....	9	(1)	...	(1)	9	9	...	265
28	Chemicals and products.....	36	7	1	6	29	29	...	3,273
29	Petroleum and coal products.....	313	210	30	180	130	103	27	5,131
31	Leather and leather products.....	(1)	...	...	...	(1)	(1)	...	(1)
32	Stone, clay, and glass products.....	47	17	13	4	59	30	29	940
33	Primary metal industries.....	31	3	2	1	28	28	...	912
34	Fabricated metal products.....	37	1	1	(1)	36	36	...	822
35	Machinery, except electrical.....	46	2	(1)	2	44	44	...	590
36	Electrical machinery.....	4	(1)	(1)	...	4	4	...	444
37	Transportation equipment.....	30	1	1	(1)	29	29	...	345
38	Instruments and related products.....	1	...	...	...	1	1	...	333
39	Miscellaneous manufactures.....	(1)	...	...	...	(1)	(1)	...	(1)

See footnotes at end of table.

Table 4.—HORSEPOWER OF POWER EQUIPMENT USED IN MANUFACTURING INDUSTRIES FOR STATES BY MAJOR INDUSTRY GROUP: 1954—Continued

Code No.	State and major industry group	Aggregate horsepower (Prime movers and electric motors driven by purchased energy) (1,000 hp)	Prime movers (1,000 hp)			Electric motors (1,000 hp)			Aggregate horsepower per 100 production workers
			Total	Driving generators	Not driving generators	Total	Driven by purchased energy	Driven by energy generated at establishment	
	Oregon.....	1,587	661	303	358	1,126	926	200	1,414
20	Food and kindred products.....	97	20	7	13	83	77	6	693
22	Textile mill products.....	7	...	...	...	7	7	...	333
24	Lumber and wood products.....	1,130	606	279	327	699	524	175	1,631
25	Furniture and fixtures.....	2	(1)	(1)	...	2	2	...	125
26	Pulp, paper and products.....	196	22	13	9	190	174	16	3,843
27	Printing and publishing.....	4	(1)	(1)	...	4	4	...	138
28	Chemicals and products.....	13	1	(1)	1	12	12	...	1,300
29	Petroleum and coal products.....	3	(1)	...	(1)	3	3	...	1,500
30	Rubber products.....	3	(1)	(1)	...	3	3	...	3,000
31	Leather and leather products.....	(1)	(1)	...	(1)	(1)	(1)	...	(1)
32	Stone, clay, and glass products.....	24	5	3	2	22	19	3	2,400
33	Primary metal industries.....	36	1	(1)	1	35	35	...	1,385
34	Fabricated metal products.....	45	3	1	2	42	42	...	1,047
35	Machinery, except electrical.....	13	(1)	(1)	(1)	13	13	...	481
36	Electrical machinery.....	3	(1)	(1)	...	3	3	...	375
37	Transportation equipment.....	9	3	(1)	3	6	6	(1)	450
38	Instruments and related products.....	1	(1)	(1)	...	1	1	...	250
39	Miscellaneous manufactures.....	1	(1)	(1)	...	1	1	...	71
	Pennsylvania.....	12,444	3,974	2,023	1,951	10,692	8,470	2,222	1,260
20	Food and kindred products.....	471	110	84	26	428	361	67	620
21	Tobacco manufactures.....	12	(1)	(1)	...	12	12	...	79
22	Textile mill products.....	311	28	20	8	300	283	17	345
24	Lumber and wood products.....	89	38	12	26	54	51	3	712
25	Furniture and fixtures.....	83	9	6	3	78	74	4	421
26	Pulp, paper and products.....	450	189	156	33	444	261	183	1,456
27	Printing and publishing.....	123	7	6	1	116	116	...	303
28	Chemicals and products.....	639	263	181	82	489	376	113	2,152
29	Petroleum and coal products.....	821	459	149	310	479	362	117	3,928
30	Rubber products.....	121	8	5	3	115	113	2	1,152
31	Leather and leather products.....	54	16	14	2	45	38	7	194
32	Stone, clay, and glass products.....	735	187	134	53	663	548	115	1,324
33	Primary metal industries.....	5,917	2,431	1,096	1,335	4,930	3,486	1,444	2,984
34	Fabricated metal products.....	618	38	20	18	585	580	5	730
35	Machinery, except electrical.....	848	74	60	14	815	774	41	880
36	Electrical machinery.....	407	33	17	16	386	374	12	543
37	Transportation equipment.....	468	59	44	15	483	409	74	902
38	Instruments and related products.....	28	(1)	(1)	(1)	28	28	...	168
39	Miscellaneous manufactures.....	249	25	19	6	242	224	18	666
	Rhode Island.....	425	66	57	9	411	359	52	427
20	Food and kindred products.....	21	5	3	2	16	16	...	568
22	Textile mill products.....	160	44	40	4	144	116	28	500
24	Lumber and wood products.....	4	(1)	(1)	(1)	4	4	...	1,333
25	Furniture and fixtures.....	1	(1)	...	(1)	1	1	...	250
26	Pulp, paper and products.....	12	4	4	(1)	14	8	6	857
27	Printing and publishing.....	7	(1)	(1)	...	7	7	...	304
28	Chemicals and products.....	4	(1)	...	(1)	4	4	(1)	500
29	Petroleum and coal products.....	4	4	1	3	1	(1)	1	2,000
30	Rubber products.....	32	(1)	(1)	(1)	32	32	...	744
31	Leather and leather products.....	1	(1)	...	(1)	1	1	...	167
32	Stone, clay, and glass products.....	7	(1)	...	(1)	7	7	...	438
33	Primary metal industries.....	59	6	6	...	70	53	17	1,157
34	Fabricated metal products.....	22	1	1	(1)	21	21	...	349
35	Machinery, except electrical.....	31	(1)	(1)	(1)	31	31	(1)	333
36	Electrical machinery.....	12	...	...	...	12	12	...	353
38	Instruments and related products.....	2	(1)	(1)	(1)	2	2	...	125
39	Miscellaneous manufactures.....	44	2	2	(1)	42	42	...	180
	South Carolina.....	1,571	639	542	97	1,384	932	452	916
20	Food and kindred products.....	40	3	1	2	37	37	...	769
21	Tobacco manufactures.....	1	(1)	...	(1)	1	1	...	67
22	Textile mill products.....	763	151	137	14	693	612	81	625
24	Lumber and wood products.....	97	48	18	30	51	49	2	584
25	Furniture and fixtures.....	8	2	2	(1)	12	6	6	381
26	Pulp, paper and products.....	165	113	101	12	155	52	103	3,173
27	Printing and publishing.....	4	(1)	(1)	(1)	4	4	...	250
28	Chemicals and products.....	413	306	279	27	367	107	260	5,228
29	Petroleum and coal products.....	3	1	1	(1)	2	2	...	3,000
32	Stone, clay, and glass products.....	38	6	2	4	32	32	...	1,086
33	Primary metal industries.....	3	1	...	1	2	2	...	600
35	Machinery, except electrical.....	22	6	...	6	16	16	...	1,000
37	Transportation equipment.....	4	2	1	1	2	2	...	1,333
38	Instruments and related products.....	(1)	...	...	...	(1)	(1)	...	(1)

See footnotes at end of table.

Table 4.—HORSEPOWER OF POWER EQUIPMENT USED IN MANUFACTURING INDUSTRIES FOR STATES BY MAJOR INDUSTRY GROUP: 1954—Continued

Code No.	State and major industry group	Aggregate horsepower (Prime movers and electric motors driven by purchased energy) (1,000 hp)	Prime movers (1,000 hp)			Electric motors (1,000 hp)			Aggregate horsepower per 100 production workers
			Total	Driving generators	Not driving generators	Total	Driven by purchased energy	Driven by energy generated at establishment	
	South Dakota.....	42	4	2	2	40	38	2	500
20	Food and kindred products.....	27	3	2	1	26	24	2	482
24	Lumber and wood products.....	7	1	(1)	1	6	6	...	1,000
27	Printing and publishing.....	1	(1)	...	(1)	1	1	...	125
28	Chemicals and products.....	1	...	...	...	1	1	...	1,123
32	Stone, clay, and glass products.....	4	(1)	(1)	(1)	4	4	(1)	2,000
34	Fabricated metal products.....	1	(1)	...	(1)	1	1	...	500
35	Machinery, except electrical.....	1	...	...	...	1	1	...	500
39	Miscellaneous manufactures.....	(1)	...	...	...	(1)	(1)	...	(1)
	Tennessee.....	2,523	743	571	172	2,083	1,780	303	1,341
20	Food and kindred products.....	120	8	4	4	113	112	1	682
22	Textile mill products.....	95	4	1	3	94	91	3	307
24	Lumber and wood products.....	100	35	18	17	75	65	10	610
25	Furniture and fixtures.....	24	2	1	1	23	22	1	276
26	Pulp, paper and products.....	153	32	22	10	171	121	50	2,354
27	Printing and publishing.....	11	(1)	(1)	(1)	11	11	...	164
28	Chemicals and products.....	1,378	625	509	116	989	753	236	4,503
29	Petroleum and coal products.....	8	4	1	3	4	4	...	2,667
30	Rubber products.....	51	3	2	1	49	48	1	1,109
31	Leather and leather products.....	14	1	1	(1)	13	13	...	137
32	Stone, clay, and glass products.....	89	9	(1)	9	80	80	...	1,203
33	Primary metal industries.....	259	13	8	5	246	246	...	2,616
34	Fabricated metal products.....	85	2	1	1	83	83	...	625
35	Machinery, except electrical.....	33	1	(1)	1	32	32	...	508
36	Electrical machinery.....	19	(1)	(1)	(1)	19	19	...	576
37	Transportation equipment.....	36	(1)	...	(1)	36	36	(1)	878
38	Instruments and related products.....	6	...	...	...	6	6	...	353
	Texas.....	6,050	3,835	1,935	1,900	3,265	2,215	1,050	2,106
20	Food and kindred products.....	339	47	25	22	324	292	32	769
22	Textile mill products.....	26	2	...	...	24	24	(1)	325
24	Lumber and wood products.....	119	59	27	32	69	60	9	630
25	Furniture and fixtures.....	22	(1)	...	(1)	22	22	...	268
26	Pulp, paper and products.....	145	88	86	2	148	57	91	2,302
27	Printing and publishing.....	26	(1)	(1)	(1)	26	26	...	187
28	Chemicals and products.....	1,294	788	238	550	684	506	178	5,035
29	Petroleum and coal products.....	1,874	1,603	422	1,181	790	271	519	5,912
31	Leather and leather products.....	2	(1)	(1)	(1)	2	2	...	65
32	Stone, clay, and glass products.....	195	47	36	11	195	148	47	1,711
33	Primary metal industries.....	1,447	1,106	1,068	38	515	341	174	7,497
34	Fabricated metal products.....	82	10	5	5	72	72	(1)	558
35	Machinery, except electrical.....	170	12	2	10	158	158	(1)	694
36	Electrical machinery.....	21	3	3	(1)	18	18	...	583
37	Transportation equipment.....	187	43	10	33	144	144	...	446
38	Instruments and related products.....	1	(1)	(1)	(1)	1	1	...	59
39	Miscellaneous manufactures.....	86	26	11	15	60	60	(1)	1,036
	Utah.....	474	263	110	153	450	211	239	2,236
20	Food and kindred products.....	49	12	6	6	45	37	8	891
22	Textile mill products.....	(1)	...	...	...	(1)	(1)	...	(1)
24	Lumber and wood products.....	6	4	1	3	2	2	(1)	1,200
25	Furniture and fixtures.....	1	...	...	...	1	1	...	333
27	Printing and publishing.....	2	...	...	...	2	2	...	182
28	Chemicals and products.....	27	8	2	6	21	19	2	3,375
29	Petroleum and coal products.....	76	45	3	42	31	31	...	5,429
32	Stone, clay, and glass products.....	30	5	(1)	5	25	25	...	2,308
33	Primary metal industries.....	262	188	98	90	303	74	229	4,094
34	Fabricated metal products.....	14	1	(1)	1	13	13	...	933
35	Machinery, except electrical.....	5	...	...	...	5	5	(1)	625
36	Electrical machinery.....	(1)	...	...	...	(1)	(1)	...	(1)
38	Instruments and related products.....	(1)	...	...	...	(1)	(1)	...	(1)
39	Miscellaneous manufactures.....	2	...	...	...	2	2	...	667
	Vermont.....	193	45	31	14	173	148	25	694
20	Food and kindred products.....	15	(1)	(1)	(1)	15	15	...	789
22	Textile mill products.....	12	5	4	1	8	7	1	571
24	Lumber and wood products.....	30	9	4	5	22	21	1	698
25	Furniture and fixtures.....	8	3	2	1	8	5	3	727
26	Pulp, paper and products.....	40	23	18	5	21	17	4	2,500
27	Printing and publishing.....	1	...	...	...	1	1	...	111
28	Chemicals and products.....	6	...	...	...	6	6	...	6,000
31	Leather and leather products.....	1	...	...	...	1	1	...	250
32	Stone, clay, and glass products.....	25	3	2	1	35	22	13	758
33	Primary metal industries.....	3	...	...	...	3	3	...	600
34	Fabricated metal products.....	3	(1)	(1)	(1)	3	3	(1)	429
35	Machinery, except electrical.....	34	2	1	1	35	32	3	540
36	Electrical machinery.....	1	(1)	(1)	(1)	1	1	...	143
39	Miscellaneous manufactures.....	6	(1)	(1)	(1)	6	6	...	286

See footnotes at end of table.

Table 4.—HORSEPOWER OF POWER EQUIPMENT USED IN MANUFACTURING INDUSTRIES FOR STATES BY MAJOR INDUSTRY GROUP: 1954—Continued

Code No.	State and major industry group	Aggregate horsepower (prime movers and electric motors driven by purchased energy) (1,000 hp)	Prime movers (1,000 hp)			Electric motors (1,000 hp)			Aggregate horsepower per 100 production workers
			Total	Driving generators	Not driving generators	Total	Driven by purchased energy	Driven by energy generated at establishment	
	Virginia.....	1,624	761	598	163	1,374	863	511	882
20	Food and kindred products.....	94	10	4	6	85	84	1	461
21	Tobacco manufactures.....	43	8	5	3	38	35	3	326
22	Textile mill products.....	162	43	41	2	132	119	13	484
24	Lumber and wood products.....	117	68	25	43	53	49	4	560
25	Furniture and fixtures.....	57	19	18	1	62	38	24	452
26	Pulp, paper and products.....	277	193	171	22	254	84	170	3,078
27	Printing and publishing.....	13	2	1	1	11	11	...	260
28	Chemicals and products.....	576	384	315	69	457	192	265	2,118
30	Rubber products.....	8	(¹)	(¹)	(¹)	8	8	...	1,000
31	Leather and leather products.....	5	1	1	(¹)	6	4	2	109
32	Stone, clay, and glass products.....	86	17	10	7	83	69	14	1,564
33	Primary metal industries.....	22	6	1	5	18	16	2	815
34	Fabricated metal products.....	48	2	1	1	46	46	...	857
35	Machinery, except electrical.....	13	1	(¹)	1	12	12	...	722
37	Transportation equipment.....	97	7	5	2	103	90	13	581
38	Instruments and related products.....	2	...	...	...	2	2	...	154
39	Miscellaneous manufactures.....	3	(¹)	(¹)	(¹)	3	3	...	158
	Washington.....	2,531	788	408	380	2,084	1,743	341	1,741
20	Food and kindred products.....	134	20	8	12	125	114	11	691
22	Textile mill products.....	2	...	...	...	2	2	...	400
24	Lumber and wood products.....	717	378	150	228	470	339	131	1,656
25	Furniture and fixtures.....	11	(¹)	...	(¹)	11	11	...	423
26	Pulp, paper and products.....	640	212	179	33	622	428	194	4,706
27	Printing and publishing.....	10	(¹)	(¹)	(¹)	10	10	...	244
28	Chemicals and products.....	468	126	52	74	342	342	...	7,429
29	Petroleum and coal products.....	23	11	(¹)	11	12	12	...	11,500
31	Leather and leather products.....	1	...	...	...	1	1	...	250
32	Stone, clay, and glass products.....	84	17	9	8	72	67	5	3,231
33	Primary metal industries.....	202	9	2	7	193	193	...	1,924
34	Fabricated metal products.....	33	2	1	1	31	31	...	767
35	Machinery, except electrical.....	34	(¹)	(¹)	(¹)	34	34	...	829
36	Electrical machinery.....	3	1	1	...	2	2	...	600
37	Transportation equipment.....	146	8	6	2	138	138	...	505
38	Instruments and related products.....	(¹)	...	...	...	(¹)	(¹)	...	(¹)
	West Virginia.....	2,344	1,323	786	537	1,966	1,021	945	2,511
20	Food and kindred products.....	26	2	1	1	24	24	(¹)	553
21	Tobacco manufactures.....	4	(¹)	(¹)	...	4	4	...	400
22	Textile mill products.....	5	2	2	...	5	3	2	263
24	Lumber and wood products.....	35	19	5	14	17	16	1	493
25	Furniture and fixtures.....	3	...	...	...	3	3	...	375
27	Printing and publishing.....	3	(¹)	(¹)	(¹)	3	3	...	167
28	Chemicals and products.....	1,124	677	313	364	631	447	184	7,159
29	Petroleum and coal products.....	60	12	1	11	48	48	...	2,727
31	Leather and leather products.....	4	4	4	...	3	(¹)	3	500
32	Stone, clay, and glass products.....	126	20	12	8	118	106	12	583
33	Primary metal industries.....	832	577	442	135	994	255	739	4,782
34	Fabricated metal products.....	51	5	4	1	48	46	2	708
35	Machinery, except electrical.....	17	(¹)	(¹)	(¹)	17	17	...	607
36	Electrical machinery.....	12	...	...	...	12	12	...	353
37	Transportation equipment.....	27	2	(¹)	2	25	25	...	2,700
38	Instruments and related products.....	1	(¹)	(¹)	...	1	1	...	500
39	Miscellaneous manufactures.....	4	...	...	...	4	4	...	364
	Wisconsin.....	2,518	653	501	152	2,359	1,865	494	775
20	Food and kindred products.....	320	117	74	43	259	203	56	691
22	Textile mill products.....	21	6	4	2	16	15	1	318
24	Lumber and wood products.....	102	36	23	13	84	66	18	650
25	Furniture and fixtures.....	33	7	6	1	30	26	4	388
26	Pulp, paper and products.....	588	293	243	50	562	295	267	2,115
27	Printing and publishing.....	22	(¹)	(¹)	(¹)	22	22	...	171
28	Chemicals and products.....	39	7	5	2	35	32	3	672
29	Petroleum and coal products.....	23	11	5	6	20	12	8	3,286
30	Rubber products.....	39	2	(¹)	2	37	37	...	1,000
31	Leather and leather products.....	37	12	11	1	35	25	10	248
32	Stone, clay, and glass products.....	40	14	7	7	33	26	7	1,081
33	Primary metal industries.....	202	5	2	3	201	197	4	985
34	Fabricated metal products.....	173	19	13	6	165	154	11	665
35	Machinery, except electrical.....	469	68	61	7	478	401	77	726
36	Electrical machinery.....	117	37	36	1	97	80	17	450
37	Transportation equipment.....	201	11	7	4	197	190	7	852
38	Instruments and related products.....	23	3	(¹)	3	20	20	...	442
	Wyoming.....	110	69	16	53	101	41	60	2,398
20	Food and kindred products.....	12	7	5	2	10	5	5	1,200
24	Lumber and wood products.....	13	6	2	4	7	7	...	1,625
27	Printing and publishing.....	1	...	...	...	1	1	...	333
29	Petroleum and coal products.....	78	55	9	46	78	23	55	4,333
32	Stone, clay, and glass products.....	6	1	...	1	5	5	...	2,000

NOTE: Data are shown separately for selected two-digit major industry groups within each State. Consequently the two-digit industry data may not add to the State totals which also include the industry groups not shown separately. D Withheld to avoid approximately disclosing figures for individual companies. ¹Less than 500 horsepower.

Chapter VIII

FUELS AND ELECTRIC ENERGY CONSUMED

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Fuels and Electric Energy Consumed

The manufacturing industries consume a substantial part of the bituminous coal, coke, fuel oil and gas produced in the United States. Census statistics on the quantities of fuels important in manufacturing were first collected in 1909 and subsequently in 1914, 1919, 1929, 1937, 1939, 1947 and 1954. Data on electric energy purchased by manufacturers were first collected for the year 1929. Data on electric energy generated by manufacturing plants were first obtained for 1939.

The 1954 Census of Manufactures report collected separate figures on the quantity and cost of purchased coal, coke, fuel oil, and gas, and a summary figure on other fuels. Provision was made for collecting the quantity and cost of electric energy purchased, the quantity and value of electric energy sold, and the quantity of electric energy generated. Separate statistics were collected on important uses of fuels as raw materials, such as coal used in making coke.

For selected industries, the 1954 Census provided for separate reporting of fuels produced and consumed in the same establishment. Such fuels are primarily used by producing establishments for heat and power. Separate statistics are shown in this chapter for the consumption of such fuels.

For selected apparel and printing and publishing industries only the total expenditure for fuel was collected. Since these industries are very small users of fuels, their omission from the detailed fuel statistics have a minor effect on the data. The total fuel outlays of these two industry groups are included in the total cost of fuels data, however.

Comparative totals for the fuels and electric energy statistics are shown in Table 1a for all years for which they are available. The first five data columns of this table contain information on purchased fuels and electric energy consumed for heat and power in 1954, 1947 and 1939. When the quantity figures are reduced to their thermal equivalent, they will, with a minor exception, yield unduplicated totals of purchased heat, power, and energy used in manufacturing. The minor exception relates to use of fuels to generate electricity which is subsequently sold or transferred to other manufacturing establishments. Succeeding columns of Table 1a show comparative figures, where available, for 1909 to 1954 for the total consumption of fuel in manufacturing

whether purchased elsewhere or produced at the consuming plant and whether used for production of heat and power or used as a raw material for further manufacture. The thermal equivalent of the fuels and electric energy shown in the latter part of the table should not be combined because of duplication, as in the case of coal used as a raw material in making coke and the coke then used as a fuel. In general, censuses prior to 1947 did not distinguish between fuels used for raw materials and for other purposes.

The 1954 figures in the first section of Table 1a are totals corresponding to the detailed quantity and cost data in Tables 2 and 3 and the fuels statistics shown in Volume II, Industry Statistics.

The 1954 Census of Manufactures excluded the coke oven establishments operated by public utilities whereas the 1947 Census included such establishments. A footnote is appended to Table 2 which shows the approximate effect of this change. In general, 1947 data on fuels and electric energy were not retabulated to conform to industry classifications revised for the 1954 Census. Consequently data for 1947 are not shown for industries which were significantly redefined between 1947 and 1954.

Gas is measured in cubic feet. The data include gases with a wide range of heat value. For example, still gas has a heat value twice that of natural gas while the heat value of blast furnace gas is less than one-tenth of natural gas. Liquified petroleum gas purchased in liquid form is excluded from the gas data but its cost is included with "other fuels."

Table 1b summarizes the data on fuels and electric energy collected in the 1954 Census of Manufactures. Separate totals are presented for fuels used as raw material and those used for heat and power. The heat and power totals are further separated between purchased fuels and those produced and consumed within the same establishment.

Table 2 includes statistics on purchased fuels and electric energy used by individual industries and industry groups for 1954 and 1947. Table 3 contains 1954 and 1947 data on purchased fuels and electric energy for all manufacturing by divisions and States.

FUELS AND ELECTRIC ENERGY CONSUMED

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Table 1A.—FUELS AND ELECTRIC ENERGY USED IN THE MANUFACTURING INDUSTRIES: 1954 AND EARLIER YEARS

Kind	Unit of quantity	Fuels and electric energy purchased ¹					Fuels and electric energy used for all purposes ²			
		1954		1947		1939 (quantity)	1954		1947	
		Quantity	Cost (\$1,000)	Quantity	Cost (\$1,000)		Quantity	Cost (\$1,000)	Quantity	Cost (\$1,000)
Fuels:										
Bituminous coal.	Thousand tons..	91,457	676,804	103,788	647,958	75,190	176,716	1,437,591	210,141	1,344,175
Anthracite.....	.....do.....									
Coke.....	.....do.....									
Fuel oil.....	Thousand barrels	185,541	578,220	166,947	474,945	97,362	249,569	689,386	215,559	560,573
Gas:										
Natural.....	Million cu. ft.	5,914,855	847,268	1,238,311	210,637	633,245	37,053,031	(NA)	41,723,193	4227,947
Manufactured.....	.....do.....									
Mixed.....	.....do.....									
Other fuels.....	.....do.....	xxx	200,553	xxx	96,457	xxx	xxx	273,084	xxx	96,687
Electric energy:										
Purchased.....	Million kwh....	187,027	1,725,350	102,822	954,717	544,847	187,027	1,725,350	102,822	954,717
Generated.....	.....do.....	xxx	xxx	xxx	xxx	xxx	69,683	(NA)	43,936	(NA)
Sold.....	.....do.....	xxx	xxx	xxx	xxx	xxx	9,044	85,830	5,811	40,815
Fuels and electric energy used for all purposes ² —Continued										
		1939 Quantity	1937 Quantity	1929		1927 Quantity	1923 Quantity	1919 Quantity	1914 Quantity	1909 Quantity
				Quantity	Cost (\$1,000)					
Fuels:										
Bituminous coal.	138,182	162,961	196,780	689,830	199,705	222,848	188,838	154,847	151,123	14,470
Anthracite.....	5,168	6,562	9,452	40,791						
Coke.....	36,745	41,508	51,406	234,675						
Fuel oil.....	133,404	136,255	132,221	177,008	(NA)	(NA)	69,639	32,670	38,530	19,727
Gas:										
Natural.....	980,515	2,789,089	1,174,191	224,005	(NA)	(NA)	565,797	373,695	308,877	xxx
Manufactured.....	1,806,164									
Mixed.....	21,528									
Other fuels.....	xxx	xxx	xxx	22,242	xxx	xxx	xxx	xxx	xxx	xxx
Electric energy:										
Purchased.....	44,847	645,949	36,427	461,097	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Generated.....	28,593	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Sold.....	2,922	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)

NA Not available. xxx Not applicable. ¹Represents fuels and electric energy purchased by manufacturing establishments and used for heat and power. Excludes fuels used as raw material such as coal used in making coke and natural gas used in making carbon black. ²Represents fuels and electric energy used by manufacturing establishments for heat, power and as a raw material for further manufacture. Includes fuels and electric energy produced and consumed in the same establishment (except blast-furnace gas used at blast furnaces). Figures for 1939 and earlier years have been revised and supplemented by Bureau of Mines data for operations for which adequate Census figures had not been obtained. ³Includes 480,014 million cubic feet of still gas made and used valued at \$143,360,000, 5,914,855 million cubic feet of gas purchased for heat and power at a cost of \$859,646,000, 338,101 million cubic feet of gas used as a raw material at a cost of \$33,734,000 and 320,061 million cubic feet of coke oven gas made and used. ⁴1947 figure includes 538,555 million cubic feet of gas at a cost of \$89,981,000 that was produced and consumed in Industry 2932, Byproduct Coke Ovens. ⁵The cost of purchased electric energy in 1939 was \$462,310 thousand. ⁶The cost of purchased electric energy in 1937 was \$467,692 thousand including \$12,823 thousand for which quantity figure were not available.

Table 1B. FUELS USED FOR HEAT AND POWER AND FUEL USED AS RAW MATERIAL IN THE MANUFACTURING INDUSTRIES: 1954

Kind	Unit of measure	1954	
		Quantity	Cost (\$1,000)
Fuels:			
Bituminous coal and anthracite:			
Purchased for heat and power.....	Thousand tons.....	91,457	676,804
Used as raw material.....	.....do.....	85,441	761,541
Coke:			
Purchased for heat and power.....	.....do.....	54,386	867,865
Used as raw material.....	.....do.....	1,860	26,628
Fuel oil:			
Used for heat and power.....	Thousand barrels..	245,644	678,400
Purchased.....	.....do.....	185,541	578,220
Made and used ².....	.....do.....	60,103	100,180
Used as raw material.....	.....do.....	3,960	11,003
Gas:¹			
Used for heat and power.....	Million cu. ft....	8,976,930	(NA)
Purchased.....	.....do.....	5,914,855	847,268
Made and used ².....	.....do.....	3,062,075	(NA)
Used as raw material.....	.....do.....	338,101	33,734
Other fuels.....		(NA)	273,084

NA Not available.

¹Includes natural gas, manufactured gas, still gas and blast furnace gas. Excludes liquefied petroleum gas.²Includes only fuels produced and consumed in the same establishment.³Includes 480,014 million cubic feet of still gas valued at \$143,360,000.

Table 2.—FUELS AND ELECTRIC ENERGY USED BY MAJOR INDUSTRY GROUP,

Code No.	Industry and industry group	Total cost of fuels and purchased electric energy (\$1,000)	Bituminous coal and anthracite		Coke	
			Quantity	Cost	Quantity	Cost
			(1,000 tons)	(\$1,000)	(1,000 tons)	(\$1,000)
	All industries, total.....1954..	34,924,729	91,457	676,804	54,371	867,865
	.....1947..	3,331,518	110,869	692,827	66,171	729,403
20	Food and kindred products.....1954..	419,075	11,179	86,382	99	1,866
	.....1947..	278,783	13,269	81,328	195	2,722
21	Tobacco manufactures.....1954..	7,860	345	2,927	2	33
	.....1947..	6,036	489	3,394	(⁵)	(⁵)
22	Textile mill products.....1954..	195,476	4,964	38,606	23	332
	.....1947..	166,492	6,612	51,205	18	246
23	Apparel and related products.....1954..	636,072	(NA)	(NA)	(NA)	(NA)
	.....1947..	29,728	611	4,618	5	41
24	Lumber and wood products.....1954..	99,232	847	8,022	9	146
	.....1947..	67,798	876	5,654	(⁴)	(⁵)
25	Furniture and fixtures.....1954..	30,585	658	5,769	3	64
	.....1947..	21,568	1,017	6,759	6	50
26	Pulp, paper and products.....1954..	311,488	12,572	104,088	12	223
	.....1947..	198,276	14,875	106,446	12	100
27	Printing and publishing.....1954..	652,285	(NA)	(NA)	(NA)	(NA)
	.....1947..	35,205	371	2,825	4	43
28	Chemicals and products.....1954..	621,310	21,009	142,247	27	422
	.....1947..	296,604	18,988	113,390	2,113	24,332
29	Petroleum and coal products.....1954..	184,712	1,428	8,704	66	363
	.....1947..	96,691	2,572	13,250	41	130
30	Rubber products.....1954..	56,750	2,234	14,522	1	15
	.....1947..	45,912	2,842	15,830	3	29
31	Leather and leather goods.....1954..	24,011	610	6,547	1	16
	.....1947..	20,718	1,220	9,001	3	35
32	Stone, clay, and glass products.....1954..	369,859	13,634	95,803	191	3,439
	.....1947..	257,748	16,985	99,424	370	5,291
33	Primary metal industries.....1954..	1,716,502	9,860	66,884	53,219	843,903
	.....1947..	1,317,136	15,669	85,723	61,797	672,144
34	Fabricated metal products.....1954..	159,838	1,716	14,036	163	3,865
	.....1947..	111,008	2,307	15,541	405	6,330
35	Machinery, except electrical.....1954..	217,848	3,249	25,606	327	7,942
	.....1947..	146,971	4,195	27,154	650	10,672
36	Electrical machinery.....1954..	101,163	1,448	11,329	20	465
	.....1947..	64,420	2,101	13,274	188	3,153
37	Transportation equipment.....1954..	217,889	4,217	32,461	198	4,542
	.....1947..	124,695	4,532	28,194	346	3,879
38	Instruments and related products.....1954..	21,796	533	4,816	2	67
	.....1947..	12,459	385	2,797	2	33
39	Miscellaneous manufactures.....1954..	80,978	954	8,055	8	162
	.....1947..	33,270	953	7,020	13	169
INDUSTRIES: 1954						
20	FOOD AND KINDRED PRODUCTS.....	419,075	11,179	86,382	99	1,866
201	Meat products.....	63,608	1,577	12,148	5	83
2011	Meat packing plants.....	49,430	1,463	10,967	2	38
2013	Prepared meats.....	8,256	71	666	2	40
2015	Poultry dressing plants.....	5,922	43	515	(⁴)	5
202	Dairy products.....	103,814	2,860	25,958	4	128
2021	Creamery butter.....	11,926	363	3,377	(⁴)	57
2022	Natural cheese.....	7,413	276	2,787	(⁴)	6
2023	Concentrated milk.....	11,923	659	5,432	(⁴)	(⁵)
2024	Ice cream and ices.....	10,211	52	694	(⁴)	8
2025	Special dairy products.....	2,242	99	769	(⁴)	(⁵)
2026	Fluid milk.....	4,596	105	1,044	2	34
2027	Fluid milk and other products.....	55,503	1,306	11,855	1	21
203	Canned and frozen foods.....	34,203	804	7,003	4	56
2031	Canned seafood.....	1,353	13	157	(⁴)	(⁵)
2032	Cured fish.....	300	6	62	(⁴)	(⁵)
2033	Canned fruits and vegetables.....	20,017	669	5,711	2	32
2034	Dehydrated fruits and vegetables.....	1,261	4	38	(⁴)	(⁵)
2035	Pickles and sauces.....	3,410	86	777	2	20
2036	Packaged seafood.....	1,261	9	93	...	...
2037	Frozen fruits and vegetables.....	6,601	17	165	...	...
204	Grain mill products.....	35,206	333	2,598	1	29
2041	Flour and meal.....	11,448	113	783	(⁴)	6
2042	Prepared animal feeds.....	18,820	135	1,120	(⁴)	17
2043	Cereal breakfast foods.....	3,008	65	541	...	...
2044	Rice milling.....	998	(⁴)	(⁵)	(⁴)	4
2045	Flour mixes.....	932	20	153	(⁴)	2
205	Bakery products.....	46,336	310	3,136	9	148
2051	Bread and related products.....	40,113	284	2,895	6	106
2052	Biscuit and crackers.....	6,223	26	241	3	42

See footnotes at end of table.

FUELS AND ELECTRIC ENERGY CONSUMED

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1954, AND 1947, AND BY INDUSTRY, 1954

Fuel oil ¹		Gas ²		Other fuels	Electric energy						
Quantity (1,000 barrels)	Cost (\$1,000)	Quantity (million cu. ft.)	Cost (\$1,000)		Cost (\$1,000)	Purchased		Generated (million kwh)	Sold		
						Quantity (million kwh)	Cost (\$1,000)		Quantity (million kwh)		Cost (\$1,000)
185,541	578,220	5,914,855	847,268	200,553	187,027	1,725,350	69,683	9,044	85,830		
166,947	474,945	4,004,953	383,169	96,457	102,822	954,717	43,936	5,811	40,815		
20,458	67,640	262,852	69,542	25,000	12,005	168,645	2,064	97	891	20	
15,314	43,646	125,712	31,489	11,067	8,427	108,531	1,838	85	968		
278	869	595	267	266	241	3,498	99	10	150	21	
121	356	76	39	73	155	2,174	76	12	159		
11,211	31,022	22,783	8,614	2,144	11,105	114,758	1,454	237	2,154	22	
11,320	29,865	6,725	2,046	674	8,288	82,456	1,959	206	2,122		
(NA)	(NA)	(NA)	(NA)	(NA)	915	23,538	...	...	...	23
732	2,528	3,245	1,494	480	837	20,567	18	5	50		
4,060	17,324	20,475	5,150	27,085	3,218	41,505	1,276	225	1,345	24	
3,251	11,296	3,266	570	30,310	1,503	19,964	1,004	169	1,471		
667	2,760	6,434	2,411	751	1,131	18,830	87	1	24	25	
436	1,461	3,024	1,306	322	705	11,670	128	7	84		
22,472	57,489	116,604	24,839	33,397	10,852	91,452	14,183	1,496	13,836	26	
11,908	27,664	70,742	9,187	4,273	6,175	50,606	9,626	415	3,430		
(NA)	(NA)	(NA)	(NA)	(NA)	1,680	36,150	5	(7)	47	27	
745	2,371	8,091	3,591	2,579	1,251	23,796	39	10	140		
17,688	50,368	481,510	128,568	13,690	46,255	286,015	16,425	1,514	16,378	28	
16,673	43,874	174,082	25,160	4,443	11,963	85,405	8,058	411	2,660		
4,190	10,856	875,006	103,371	5,366	6,702	56,052	4,332	455	1,827	29	
3,630	9,146	696,872	43,338	2,534	3,753	28,293	3,246	501	2,152		
1,957	5,372	11,822	3,520	576	3,087	32,745	732	70	549	30	
1,460	3,619	7,932	1,640	109	2,650	24,685	810	15	104		
1,213	3,868	3,371	1,244	477	645	11,859	74	3	81	31	
753	2,250	732	344	200	475	8,888	117	19	295		
15,690	51,194	390,841	112,441	11,866	9,157	95,116	2,510	94	628	32	
14,679	38,844	249,785	54,639	4,672	5,865	54,878	2,155	122	788		
56,253	175,527	3,508,987	293,043	31,799	46,418	305,346	23,271	3,757	34,375	33	
64,372	191,157	2,503,464	155,307	24,021	31,428	188,784	11,851	2,634	16,599		
6,237	23,651	58,540	27,182	4,890	5,800	86,214	87	1	72	34	
5,230	17,290	36,516	15,929	1,961	3,739	53,957	170	8	209		
7,546	27,275	61,177	26,108	22,969	7,581	107,948	593	116	1,410	35	
6,260	19,611	36,827	15,115	2,467	5,401	71,952	579	59	742		
3,433	11,105	22,024	10,309	4,696	5,134	63,259	489	19	227	36	
2,268	6,780	12,885	5,871	764	3,156	34,578	574	114	1,062		
6,691	23,968	45,698	20,761	12,657	11,118	123,500	1,600	914	11,295	37	
5,258	15,826	58,285	12,577	4,977	5,552	59,242	1,497	988	7,451		
889	3,009	4,841	1,915	585	728	11,404	277	9	59	38	
567	1,622	2,351	1,150	94	456	6,763	90	1	6		
4,608	14,923	21,295	7,983	2,339	3,255	47,516	125	26	482	39	
1,970	5,739	4,341	2,377	437	1,043	17,528	101	30	323		
20,458	67,640	262,852	69,542	25,000	12,005	168,645	2,064	97	891	20	
2,138	7,002	44,661	11,193	5,154	2,082	28,028	167	1	17	201	
1,499	4,713	37,182	9,267	3,996	1,583	20,449	164	1	17	2011	
451	1,472	4,522	1,245	691	261	4,142	3	...	...	2013
188	817	2,957	681	467	238	3,437	...	...	...	2015
5,414	18,970	70,597	13,280	6,633	2,433	38,845	100	1	21	202	
909	2,863	4,757	1,434	281	225	3,914	12	...	...	2021
587	1,766	1,397	411	234	116	2,209	1	...	...	2022
891	2,702	4,064	1,093	344	152	2,351	64	(7)	(5)	2023	
305	1,178	3,164	938	522	442	6,871	3	1	18	2024	
118	376	478	175	125	53	796	2	(7)	(5)	2025	
264	1,065	1,762	197	187	106	2,069	...	...	...	2026
2,340	9,020	54,957	9,032	4,940	1,339	20,635	18	...	...	2027
2,664	8,030	14,702	5,007	1,540	844	12,567	27	1	12	203	
82	271	783	274	167	33	483	(7)	...	...	2031
20	72	57	44	12	5	108	(7)	...	...	2032
1,249	3,771	10,163	3,369	892	390	6,242	19	...	...	2033
64	293	1,045	385	85	31	459	...	...	...	2034
229	751	1,451	445	78	83	1,339	(7)	...	...	2035
85	390	213	81	33	40	664	...	...	...	2036
935	2,482	990	409	273	262	3,272	8	1	12	2037	
854	3,221	14,385	4,602	1,843	1,869	22,913	89	4	31	204	
166	642	1,585	508	319	877	9,190	43	...	...	2041
588	2,205	10,000	3,050	1,483	750	10,945	6	1	5	2042	
52	207	1,701	740	25	135	1,495	40	3	26	2043	
9	44	890	215	7	57	727	...	...	...	2044
39	123	209	89	9	50	556	...	...	...	2045
2,470	9,895	24,236	11,189	4,959	1,137	17,009	(7)	...	...	205
2,199	8,972	19,610	8,891	4,616	959	14,633	(7)	...	...	2051
271	923	4,626	2,298	343	178	2,376	(7)	...	...	2052

Table 2.—FUELS AND ELECTRIC ENERGY USED BY MAJOR INDUSTRY GROUP,

Code No.	Industry and industry group	Total cost of fuels and purchased electric energy (\$1,000)	Bituminous coal and anthracite		Coke	
			Quantity	Cost	Quantity	Cost
			(1,000 tons)	(\$1,000)	(1,000 tons)	(\$1,000)
20	FOOD AND KINDRED PRODUCTS--Continued					
206	Sugar.....	23,318	1,247	9,403	50	1,063
2061	Raw cane sugar.....	1,127	(4)	(5)	...	...
2062	Cane-sugar refining.....	8,974	348	3,072	...	...
2063	Beet sugar.....	13,217	899	6,330	50	1,063
207	Candy and related products.....	11,538	249	2,103	1	10
2071	Confectionery products.....	7,835	106	896	1	10
2072	Chocolate and cocoa products.....	3,086	125	1,051	...	...
2073	Chewing gum.....	617	18	156	...	...
208	Beverages.....	47,123	1,657	11,350	10	192
2081	Bottled soft drinks.....	13,085	96	1,126	1	19
2082	Beer and ale.....	19,689	765	5,314	(4)	44
2083	Malt.....	5,128	104	1,000	8	125
2084	Wines and brandy.....	1,530	8	84	...	...
2085	Distilled liquor.....	7,691	684	3,826	(4)	(5)
209	Miscellaneous.....	53,929	2,142	12,683	15	157
2091	Leavening compounds.....	1,916	146	912	...	...
2092	Shortening and cooking oils.....	7,033	220	1,423	3	50
2093	Margarine.....	723	3	32	...	...
2094	Corn wet milling.....	10,957	1,548	8,232	(4)	6
2095	Flavorings.....	2,041	26	277	2	13
2097	Manufactured ice.....	15,157	32	311	1	21
2098	Macaroni and spaghetti.....	1,886	15	138	(4)	(5)
2099	Food preparations, n.e.c.....	14,216	152	1,358	9	66
21	TOBACCO MANUFACTURES.....	7,860	345	2,927	2	33
2111	Cigarettes.....	3,245	210	1,716	...	...
2121	Cigars.....	1,552	24	225	...	...
2131	Chewing and smoking tobacco.....	727	33	254	2	33
2141	Tobacco stemming and redrying.....	2,336	78	732	...	...
22	TEXTILE MILL PRODUCTS.....	195,476	4,964	38,606	23	332
221	Woolen and worsted manufacture.....	20,263	449	4,171	17	220
2211	Scouring and combing plants.....	2,132	26	296	3	40
2212	Yarn mills, wool, except carpet.....	3,361	36	329	(4)	(5)
2213	Woolen and worsted fabrics.....	13,213	310	2,928	14	179
2216	Finishing wool textiles.....	1,487	77	618	...	...
222	Yarn and thread mills.....	21,690	239	2,087	1	16
2222	Yarn throwing mills.....	2,827	29	268	1	16
2223	Thread mills.....	2,723	49	481	...	...
2224	Yarn mills, cotton system.....	16,140	161	1,338	...	...
223	Broad-woven fabrics.....	71,619	1,514	11,043	(4)	6
2233	Cotton broad-woven fabrics.....	54,175	1,294	9,068	(4)	(5)
2234	Synthetic broad-woven fabrics.....	17,444	220	1,975	(4)	(5)
2241	Narrow fabric mills.....	3,253	22	219	1	11
225	Knitting mills.....	24,511	546	4,656	1	18
2251	Full-fashioned hosiery mills.....	6,491	95	851	1	15
2252	Seamless hosiery mills.....	4,083	142	1,276	...	...
2253	Knit outerwear mills.....	6,566	39	407	(4)	(5)
2254	Knit underwear mills.....	2,092	90	792	...	...
2255	Knit glove mills.....	105	2	22	...	...
2256	Knit fabric mills.....	5,066	178	1,306	...	...
2259	Knitting mills, n.e.c.....	108	(4)	(5)	...	...
2261	Finishing textiles, except wool.....	31,857	1,617	11,265	(4)	48
227	Carpet and rugs.....	9,869	377	3,270	1	13
2271	Wool carpets and rugs.....	4,437	215	1,855	...	...
2273	Carpets and rugs, except wool.....	1,766	36	349	(4)	10
2274	Hard-surfaced floor coverings.....	3,666	126	1,066	(4)	(5)
228	Hats, except cloth and millinery.....	1,353	16	183	...	...
2281	Fur-felt hats and hat bodies.....	778	6	65	...	...
2282	Wool-felt hats and hat bodies.....	227	3	31	...	...
2283	Straw hats.....	163	3	32	...	...
2284	Hatter's fur.....	185	4	55	...	...
229	Miscellaneous textile goods.....	11,061	184	1,712	...	...
2291	Felt goods, n.e.c.....	1,693	27	208	...	...
2292	Lace goods.....	856	15	164	...	...
2293	Padding and upholstery filling.....	2,019	38	356	...	...
2294	Processed textile waste.....	98	22	202	...	...
2295	Coated fabric, except rubberized.....	2,494	57	517	...	...
2298	Cordage and twine.....	1,856	14	149
2299	Textile goods, n.e.c.....	1,154	11	116

FUELS AND ELECTRIC ENERGY CONSUMED

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1954, AND 1947, AND BY INDUSTRY, 1954—Continued

Fuel oil ¹		Gas ²		Other fuels, cost (\$1,000)	Electric energy					
Quantity (1,000 barrels)	Cost (\$1,000)	Quantity (million cu. ft.)	Cost (\$1,000)		Purchased		Generated (million kwh)	Sold		
					Quantity (million kwh)	Cost (\$1,000)		Quantity (million kwh)	Cost (\$1,000)	
1,206	3,055	34,813	8,817	108	57	872	556	46	388	206
55	164	4,707	755	56	9	151	33	(7)	82	2061
909	2,145	17,093	3,532	11	14	214	271	1	92	2062
242	746	13,013	4,530	41	34	507	252	45	214	2063
621	1,981	5,619	895	386	432	6,163	105	24	241	207
495	1,520	5,293	825	307	287	4,277	16	...	...	2071
113	421	305	63	69	117	1,482	86	24	241	2072
13	40	21	7	10	28	404	3	...	...	2073
3,080	8,963	20,975	6,875	3,525	1,147	16,218	314	11	97	208
829	2,689	4,856	1,596	2,709	257	4,946	...	...	...	2081
1,599	4,455	8,760	2,366	448	583	7,062	233	9	93	2082
156	522	3,377	1,804	187	122	1,490	41	...	...	2083
106	339	1,049	275	43	49	789	...	...	...	2084
390	958	2,933	834	138	136	1,931	40	2	4	2085
2,011	6,523	32,864	7,684	852	2,004	26,030	706	9	84	209
106	171	429	241	...	47	592	23	...	...	2091
613	1,527	9,394	2,015	7	205	2,011	43	8	79	2092
59	167	355	80	13	34	431	...	...	...	2093
66	237	7,306	1,613	22	71	847	626	1	5	2094
119	392	1,289	346	33	74	980	2	...	...	2095
163	725	3,255	521	221	1,051	13,358	9	...	...	2097
110	351	457	110	46	81	1,240	(7)	...	...	2098
775	2,953	10,379	2,758	510	441	6,571	3	...	...	2099
278	869	595	267	266	241	3,498	99	10	150	21
102	335	26	14	5	96	1,175	96	10	150	2111
76	243	78	41	12	56	1,031	...	...	...	2121
16	43	353	136	...	20	261	3	...	...	2131
84	248	138	76	249	69	1,031	...	...	...	2141
11,211	31,022	22,783	8,614	2,144	11,105	114,758	1,454	237	2,154	22
2,321	6,371	573	210	163	622	9,128	164	6	83	221
364	939	47	12	97	47	798	13	1	12	2211
221	646	35	34	10	173	2,361	7	...	...	2212
1,532	4,252	357	104	47	384	5,703	127	5	63	2213
204	534	134	60	9	18	266	17	(7)	8	2216
309	910	1,266	394	40	1,954	18,243	53	7	126	222
39	143	147	55	6	235	2,339	1	...	...	2222
185	470	30	17	16	169	1,739	19	...	...	2223
85	297	1,089	322	18	1,550	14,165	33	7	126	2224
1,348	3,909	7,690	2,827	366	6,157	53,468	766	165	1,566	223
633	1,873	7,001	2,328	277	4,821	40,626	664	153	1,426	2233
715	2,036	689	499	89	1,336	12,842	102	12	140	2234
211	706	934	472	137	99	1,708	3	1	6	2241
1,059	3,743	3,548	1,300	351	1,019	14,443	3	...	...	225
316	1,174	770	230	112	329	4,109	...	...	...	2251
113	452	1,442	374	80	147	1,901	...	...	...	2252
140	564	378	162	29	309	5,401	...	...	...	2253
52	203	435	181	6	70	910	(7)	...	...	2254
8	33	5	(5)	(NA)	2	46	...	...	...	2255
421	1,282	504	339	124	159	2,015	3	...	...	2256
9	35	14	10	(NA)	3	61	...	...	...	2259
4,210	10,503	5,690	1,967	825	514	7,249	329	45	312	2261
714	1,880	1,956	839	...	304	3,867	90	(7)	(5)	227
283	741	398	149	...	125	1,692	67	(7)	(5)	2271
128	408	1,087	229	...	58	770	1	...	...	2273
303	731	471	461	...	121	1,405	22	...	...	2274
212	561	128	55	41	25	513	4	...	...	228
157	401	79	24	...	15	288	4	...	...	2281
38	94	(8)	(5)	20	4	82	...	...	...	2282
3	11	37	15	21	4	84	...	...	...	2283
14	55	12	16	...	2	59	...	...	...	2284
827	2,439	998	550	221	411	6,139	42	12	60	229
197	547	287	101	11	57	826	(7)	...	...	2291
103	315	42	39	18	17	320	(7)	...	...	2292
114	345	237	85	92	73	1,141	4	...	...	2293
58	181	83	26	30	33	550	(7)	...	...	2294
243	687	124	226	(5)	66	1,062	8	1	13	2295
79	253	153	48	19	107	1,387	1	...	...	2298
33	111	72	25	49	58	853	27	11	47	2299

Table 2.—FUELS AND ELECTRIC ENERGY USED BY MAJOR

Code No.	Industry and industry group	Total cost of fuels and purchased electric energy (\$1,000)	Bituminous coal and anthracite		Coke	
			Quantity (1,000 tons)	Cost (\$1,000)	Quantity (1,000 tons)	Cost (\$1,000)
23	APPAREL AND RELATED PRODUCTS.....	36,072				
231	Men's and boys' suits and coats.....	4,025				
2311	Men's and boys' suits and coats.....	3,937				
2312	Suit and coat findings.....	88				
232	Men's and boys' furnishings.....	8,022				
2321	Men's dress shirts and nightwear.....	3,378				
2322	Men's and boys' underwear.....	236				
2323	Men's and boys' neckwear.....	191				
2325	Men's and boys' cloth hats.....	189				
2326	Hat and cap materials.....	32				
2327	Separate trousers.....	1,462				
2328	Work shirts.....	158				
2329	Men's and boys' clothing, n.e.c.....	2,376				
233	Women's and misses' outerwear.....	9,085				
2331	Blouses.....	968				
2333	Dresses, unit price.....	2,792				
2334	Dresses, dozen price.....	1,144				
2337	Women's suits, coats, and skirts.....	3,569				
2338	Women's neckwear and scarfs.....	28				
2339	Women's outerwear, n.e.c.....	584				
234	Women's undergarments.....	2,973				
2341	Women's and children's underwear.....	1,891				
2342	Corsets and allied garments.....	1,082				
2351	Millinery.....	729	(NA)	(NA)	(NA)	(NA)
236	Children's outerwear.....	2,700				
2361	Children's dresses.....	708				
2363	Children's coats.....	455				
2369	Children's outerwear, n.e.c.....	1,537				
2371	Fur goods.....	807				
238	Miscellaneous apparel.....	1,686				
2381	Fabric dress gloves.....	137				
2382	Fabric work gloves.....	274				
2383	Suspenders and garters.....	18				
2384	Robes and dressing gowns.....	245				
2385	Waterproof outer garments.....	443				
2386	Leather and sheep-lined clothing.....	148				
2387	Belts.....	211				
2388	Handkerchiefs.....	109				
2389	Apparel, n.e.c.....	101				
239	Fabricated textiles.....	6,045				
2391	Curtains and draperies.....	404				
2392	Housefurnishings, n.e.c.....	2,662				
2393	Textile bags.....	669				
2394	Canvas products.....	561				
2395	Tucking, pleating, and stitching.....	72				
2396	Trimmings and art goods.....	706				
2397	Schiffli-machine embroideries.....	193				
2398	Embroideries, except Schiffli.....	138				
2399	Textile products, n.e.c.....	640				
24	LUMBER AND WOOD PRODUCTS.....	99,232	847	8,022	9	146
2411	Logging camps and contractors.....	15,661	104	1,053	1	10
242	Lumber and basic products.....	57,230	428	4,099	6	80
2421	Sawmills and planing mills.....	54,718	387	3,745	6	80
2422	Veneer mills.....	1,711	37	315	...	...
2423	Shingle mills.....	327	1	7	...	...
2424	Cooperage stock mills.....	282	2	21	...	...
2425	Excelsior mills.....	192	1	11	...	...
243	Millwork and related products.....	13,428	98	959	1	9
2431	Millwork plants.....	6,895	64	683	(4)	5
2432	Plywood plants.....	5,489	28	205	(4)	(5)
2433	Prefabricated wood products.....	1,044	6	71	...	...
244	Wooden containers.....	4,361	24	244	(4)	12
2441	Fruit and vegetable baskets.....	313	3	26	(4)	6
2442	Battan and willow ware.....	102	1	14	...	...
2443	Cigar boxes.....	61	2	17	...	...
2444	Wooden boxes.....	3,417	16	162	...	...
2445	Cooperage.....	468	2	25	(4)	6
249	Miscellaneous wood products.....	8,552	193	1,667	1	35
2491	Wood preserving.....	3,584	130	1,044	(4)	14
2492	Lasts and related products.....	132	1	13	...	...
2493	Mirror and picture frames.....	388	6	67	...	...
2499	Wood products, n.e.c.....	4,448	56	543	1	21

See footnotes at end of table.

FUELS AND ELECTRIC ENERGY CONSUMED

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INDUSTRY GROUP, 1954 AND 1947, AND BY INDUSTRY, 1954--Continued

Fuel oil ¹		Gas ²		Other fuels, cost (\$1,000)	Electric energy					Code No.
Quantity (1,000 barrels)	Cost (\$1,000)	Quantity (million cu. ft.)	Cost (\$1,000)		Purchased		Generated (million kwh)	Sold		
					Quantity (million kwh)	Cost (\$1,000)		Quantity (million kwh)	Cost (\$1,000)	
					915	23,538	...	...	...	23
					57	2,368	...	...	...	231
					56	2,307	...	...	...	2311
					1	61	...	...	...	2312
					157	4,851	...	...	...	232
					62	1,953	...	...	...	2321
					4	149	...	...	...	2322
					4	163	...	...	...	2323
					5	118	...	...	...	2325
					(7)	18	...	...	...	2326
					27	894	...	...	...	2327
					5	99	...	...	...	2328
					50	1,557	...	...	...	2329
					259	6,400	...	...	...	233
					22	574	...	...	...	2331
					102	2,289	...	...	...	2333
					48	866	...	...	...	2334
					71	2,195	...	...	...	2337
					(7)	21	...	...	...	2338
					16	455	...	...	...	2339
					76	2,016	...	...	...	234
					43	1,336	...	...	...	2341
					33	680	...	...	...	2342
(NA)	(NA)	(NA)	(NA)	(NA)	28	540	...	...	...	2351
					117	2,199	...	...	...	236
					22	554	...	...	...	2361
					9	346	...	...	...	2363
					86	1,299	...	...	...	2369
					31	737	...	...	...	2371
					42	1,015	...	...	...	238
					4	76	...	...	...	2381
					8	155	...	...	...	2382
					(7)	16	...	...	...	2383
					9	163	...	...	...	2384
					8	226	...	...	...	2385
					2	90	...	...	...	2386
					8	152	...	...	...	2387
					1	79	...	...	...	2388
					2	58	...	...	...	2389
					148	3,412	...	...	...	239
					11	271	...	...	...	2391
					71	1,320	...	...	...	2392
					18	419	...	...	...	2393
					12	314	...	...	...	2394
					2	54	...	...	...	2395
					13	434	...	...	...	2396
					3	85	...	...	...	2397
					3	116	...	...	...	2398
					15	399	...	...	...	2399
4,060	17,324	20,475	5,150	27,085	3,218	41,505	1,276	225	1,345	24
946	4,012	3,554	824	9,185	41	577	2	...	...	2411
2,269	10,254	11,006	2,783	15,543	2,056	24,471	1,083	224	1,333	242
2,215	10,016	10,583	2,678	15,290	1,955	22,909	1,079	224	1,333	2421
15	67	281	70	147	70	1,112	3	...	...	2422
20	79	22	10	43	15	188	1	...	...	2423
12	60	80	17	48	9	136	...	...	...	2424
7	32	40	8	15	7	126	...	...	...	2425
363	1,316	1,656	481	1,356	715	9,307	157	1	10	243
135	584	1,065	289	323	299	5,011	24	(7)	(5)	2431
198	589	379	149	952	371	3,590	133	1	9	2432
30	143	212	43	81	45	706	(7)	...	...	2433
88	374	671	237	362	180	3,132	20	(7)	(5)	244
3	14	65	12	19	13	236	(7)	...	...	2441
7	26	10	11	...	3	51	...	...	...	2442
2	7	20	(5)	...	1	34	...	...	...	2443
68	296	427	125	314	146	2,520	19	(7)	(5)	2444
8	31	149	86	29	17	291	1	...	...	2445
394	1,368	3,588	825	639	226	4,018	14	...	...	249
258	795	2,933	612	291	46	828	1	...	...	2491
4	18	12	6	...	3	95	...	...	...	2492
21	90	38	15	9	10	207	...	...	...	2493
111	465	605	192	339	167	2,888	13	...	...	2499

Table 2.—FUELS AND ELECTRIC ENERGY USED BY MAJOR

Code No.	Industry and industry group	Total cost of fuels and purchased electric energy (\$1,000)	Bituminous coal and anthracite		Coke	
			Quantity (1,000 tons)	Cost (\$1,000)	Quantity (1,000 tons)	Cost (\$1,000)
25	FURNITURE AND FIXTURES.....	30,585	658	5,769	3	64
251	Household furniture.....	20,351	451	3,956	2	41
2511	Wood furniture, not upholstered.....	11,209	294	2,578	2	35
2512	Upholstered household furniture.....	2,976	50	512	(4)	(5)
2514	Metal household furniture.....	3,750	62	475	(4)	(5)
2515	Mattresses and bedsprings.....	2,304	45	384	...	...
2519	Household furniture, n.e.c.....	112	(4)	7	...	...
252	Office furniture.....	2,440	73	516	...	...
2521	Wood office furniture.....	605	28	216	...	...
2522	Metal office furniture.....	1,835	45	300	...	...
253	Public and professional furniture.....	2,119	50	482	(4)	6
2531	Public-building furniture.....	1,513	37	347	(4)	6
2532	Professional furniture.....	606	13	135	...	...
2541	Partitions and fixtures.....	3,572	56	523	1	17
256	Screens, shades, and blinds.....	1,672	22	221	...	...
2561	Window and door screens.....	368	6	57	...	...
2562	Window shades.....	441	6	60	...	...
2563	Venetian blinds.....	863	10	104	...	...
259	Furniture and fixtures, n.e.c.....	431	6	71	...	...
2591	Restaurant furniture.....	334	6	66	...	...
2599	Furniture and fixtures, n.e.c.....	97	(4)	5	...	...
26	PULP, PAPER AND PRODUCTS.....	311,488	12,572	104,088	12	223
261	Pulp, paper and board.....	271,920	11,897	98,110	10	164
2611	Pulp mills.....	256,230	11,383	93,764	10	164
2612	Paper and paper board mills.....	15,690	514	4,346	...	...
2613	Building paper and board mills.....	6,123	127	1,142	(4)	11
2641	Paper coating and glazing.....	1,239	7	82	...	...
2651	Envelopes.....	2,401	25	192	...	...
2661	Paper bags.....	16,264	292	2,403	2	48
267	Paperboard containers.....	14,925	273	2,213	2	48
2671	Paperboard boxes.....	1,339	19	190	...	...
2674	Fiber cans, tubes, drums, etc.....	13,541	224	2,159	...	...
269	Pulp, paper and products, n.e.c.....	1,195	23	243	...	...
2691	Die-cut paper and board.....	754	14	124	...	...
2693	Wallpaper.....	2,379	37	373	...	...
2694	Pulp goods, pressed and molded.....	9,213	150	1,419	...	...
2699	Paper and board products, n.e.c.....	52,285				
27	PRINTING AND PUBLISHING.....	16,989				
2711	Newspapers.....	4,082				
2721	Periodicals.....	3,589				
273	Books.....	2,047				
2731	Books; publishing and printing.....	1,542				
2732	Book printing.....	768				
2741	Miscellaneous publishing.....	14,128				
2751	Commercial printing.....	6,864				
2761	Lithographing.....	926	(NA)	(NA)	(NA)	(NA)
2771	Greeting cards.....	1,581				
278	Bookbinding and related industries.....	610				
2781	Bookbinding.....	389				
2782	Blankbook and paper ruling.....	472				
2783	Loose-leaf binders and devices.....	110				
2789	Miscellaneous bookbinding work.....	3,358				
279	Printing trades services.....	664				
2791	Typesetting.....	540				
2792	Engraving and plate printing.....	1,113				
2793	Photoengraving.....	1,041				
2794	Electrotyping and stereotyping.....	21,009				
28	CHEMICALS AND PRODUCTS.....	621,310	21,009	142,247	27	422
281	Inorganic chemicals.....	314,977	7,609	50,250	(4)	12
2811	Sulfuric acid.....	2,773	32	288	(4)	8
2812	Alkalies and chlorine.....	48,824	3,198	21,256	(4)	(5)
2819	Inorganic chemicals, n.e.c.....	263,380	4,379	28,706	(4)	(5)
282	Organic chemicals.....	173,246	10,057	66,682	(4)	6
2821	Cyclic (coal tar) crudes.....	2,669	47	277	...	...
2822	Intermediates and organic colors.....	27,937	1,715	12,183	...	...
2823	Plastics materials.....	22,325	1,049	8,357	(4)	(5)
2824	Synthetic rubber.....	7,090	148	580	...	...
2825	Synthetic fibers.....	27,333	2,999	20,229	...	...
2826	Explosives.....	10,958	885	5,942	...	...
2829	Organic chemicals, n.e.c.....	74,934	3,214	19,114	(4)	(5)

See footnotes at end of table.

INDUSTRY GROUP, 1954 AND 1947, AND BY INDUSTRY, 1954—Continued

Fuel oil ¹		Gas ²		Other fuels, cost (\$1,000)	Electric energy					Code No.
Quantity (1,000 barrels)	Cost (\$1,000)	Quantity (million cu. ft.)	Cost (\$1,000)		Purchased		Generated (million kwh)	Sold		
					Quantity (million kwh)	Cost (\$1,000)		Quantity (million kwh)	Cost (\$1,000)	
667	2,760	6,434	2,411	751	1,131	18,830	87	1	24	25
442	1,798	2,971	1,064	551	794	12,941	72	1	24	251
170	700	982	288	219	469	7,389	67	1	23	2511
69	292	453	151	122	116	1,895	4	(7)	(5)	2512
118	478	1,042	458	142	126	2,195	(7)	(7)	1	2514
78	302	493	167	63	79	1,388	(7)	...	...	2515
7	26	(8)	(5)	5	4	74	...	...	...	2519
53	204	1,077	379	8	84	1,333	3	...	...	252
5	17	84	26	6	18	340	2	...	...	2521
48	187	993	353	(5)	66	993	1	...	...	2522
35	153	501	236	98	64	1,144	10	...	...	253
20	97	360	137	94	48	832	9	...	...	2531
15	56	141	99	(5)	16	312	1	...	...	2532
89	381	1,310	507	66	109	2,078	2	...	...	2541
38	177	482	189	22	68	1,063	...	...	...	256
8	39	105	35	5	13	232	...	...	...	2561
11	53	166	72	(5)	16	252	...	...	...	2562
19	85	211	82	13	39	579	...	...	...	2563
10	47	93	36	6	12	271	...	...	...	259
7	32	71	26	5	9	205	...	...	...	2591
3	15	22	10	(5)	3	66	...	...	...	2599
22,472	57,489	116,604	24,839	33,397	10,852	91,452	14,183	1,496	13,826	26
20,014	49,466	108,437	21,748	32,093	9,352	70,339	13,962	1,491	13,762	261
19,271	47,504	93,096	18,863	31,750	8,621	64,185	13,742	1,474	13,549	2611
743	1,962	15,341	2,885	343	731	6,154	220	17	213	2612
244	851	1,427	464	136	254	3,519	27	...	...	2613
38	140	216	139	26	47	852	...	...	...	2641
90	359	805	238	56	114	1,556	15	...	...	2651
1,194	3,979	3,890	1,400	376	492	8,058	56	3	40	2661
1,112	3,691	3,659	1,283	366	453	7,324	55	3	40	267
82	288	231	117	10	39	734	1	...	...	2671
892	2,694	1,829	850	710	593	7,128	123	2	34	2674
43	168	133	85	11	38	688	3	...	...	269
66	217	48	23	137	14	253	...	...	...	2691
95	299	619	229	418	140	1,060	7	...	...	2693
688	2,010	1,029	513	144	401	5,127	113	2	34	2694
					1,680	36,150	5	(7)	47	2699
					768	12,958	...	...	...	27
					66	2,075	...	...	...	2711
					97	2,182	...	...	...	2721
					24	1,087	...	...	...	273
					73	1,095	...	...	...	2731
					14	551	...	...	...	2732
					375	9,369	...	(7)	(5)	2741
					186	4,644	...	...	...	2751
(NA)	(NA)	(NA)	(NA)	(NA)	30	624	...	...	...	2761
					57	1,158	5	(7)	47	2771
					28	486	...	...	...	278
					11	268	(7)	(7)	47	2781
					15	327	5	...	...	2782
					3	77	...	...	...	2783
					87	2,589	(7)	...	...	2789
					19	544	...	...	...	279
					7	375	...	...	...	2791
					25	908	(7)	...	...	2792
					36	762	...	...	...	2793
17,688	50,368	481,510	128,568	13,690	46,255	286,015	16,425	1,514	16,378	2794
3,327	9,445	221,692	77,348	1,621	34,312	176,301	7,905	802	9,255	28
30	112	995	217	81	247	2,067	34	...	...	281
853	2,280	44,762	6,969	205	3,273	18,112	3,025	92	732	2811
2,444	7,053	175,935	70,162	1,335	30,792	156,122	4,846	710	8,523	2812
5,620	15,661	200,164	36,697	7,667	6,144	46,533	7,472	648	6,461	2819
363	1,091	1,873	525	440	24	336	...	...	...	282
1,021	2,838	21,110	5,440	164	712	7,312	994	52	575	2821
889	2,659	10,352	3,648	835	716	6,822	303	...	...	2822
17	81	11,030	2,249	1,429	395	2,751	79	15	124	2823
820	2,066	8,867	1,716	150	466	3,172	1,954	183	859	2824
354	1,329	503	134	226	346	3,327	55	7	64	2825
2,156	5,597	146,429	22,985	4,423	3,485	22,813	4,087	391	4,839	2826

Table 2.—FUELS AND ELECTRIC ENERGY USED BY MAJOR

Code No.	Industry and industry group	Total cost of fuels and purchased electric energy (\$1,000)	Bituminous coal and anthracite		Coke	
			Quantity (1,000 tons)	Cost (\$1,000)	Quantity (1,000 tons)	Cost (\$1,000)
28	CHEMICALS AND PRODUCTS—Continued					
283	Drugs and medicines.....	18,100	391	2,728	(4)	5
2831	Biological products.....	633	9	82	(4)	(5)
2833	Medicinal chemicals (including botanicals)....	5,333	198	1,262	(4)	(5)
2834	Pharmaceutical preparations.....	12,134	184	1,384	...	...
284	Soap and related products.....	10,427	209	1,710	(4)	6
2841	Soap and glycerin.....	6,203	178	1,383	...	...
2842	Cleaning and polishing preparations.....	3,615	24	252	...	...
2843	Sulfonated oils and assistants.....	609	7	75	(4)	6
285	Paints and allied products.....	22,293	688	5,353	16	199
2851	Paints and varnishes.....	9,657	162	1,409	5	97
2852	Inorganic color pigments.....	12,436	524	3,925	11	102
2853	Whiting and fillers.....	200	2	19	...	...
286	Gum and wood chemicals.....	3,475	109	952	...	...
2861	Hardwood distillation.....	999	74	701	...	...
2862	Softwood distillation.....	1,575	(4)	(5)	...	...
2863	Gum naval stores.....	305	1	13	...	...
2865	Tanning and dyeing materials.....	596	34	238	...	...
287	Fertilizers.....	10,129	51	493	1	15
2871	Fertilizers.....	8,184	35	292	1	11
2872	Fertilizers, mixing only.....	1,945	16	201	(4)	(5)
288	Vegetable and animal oils.....	32,901	854	6,598	3	43
2881	Cottonseed oil mills.....	8,987	37	327	(4)	7
2882	Linseed oil mills.....	1,310	21	181	(4)	(5)
2883	Soybean oil mills.....	9,913	351	2,397	...	...
2884	Vegetable oil mills, n.e.c.....	1,913	77	672	...	...
2886	Grease and tallow.....	6,804	253	2,226	2	34
2887	Fatty acids.....	1,882	109	721	...	...
2889	Animal oils, n.e.c.....	2,092	6	74	...	...
289	Chemical products, n.e.c.....	35,762	1,041	7,481	7	136
2891	Printing ink.....	1,587	4	43	(4)	(5)
2892	Essential oils.....	220	4	50	...	...
2893	Toilet preparations.....	2,244	33	299	(4)	9
2894	Glue and gelatin.....	4,175	136	1,309	...	...
2895	Carbon black.....	2,396	...	...	...	...
2896	Compressed and liquefied gases.....	12,249	261	1,634	5	101
2897	Insecticides and fungicides.....	2,404	39	362	1	20
2898	Salt.....	4,041	432	2,867	...	...
2899	Chemical products, n.e.c.....	6,446	132	917	(4)	(5)
29	PETROLEUM AND COAL PRODUCTS.....	184,712	1,428	8,704	66	363
2911	Petroleum refining.....	135,101	664	3,473	8	35
293	Coke and byproducts.....	34,371	487	3,112	56	279
2931	Beehive coke ovens.....	235	1	11	...	...
2932	Byproduct coke ovens.....	34,136	486	3,101	56	279
295	Paving and roofing materials.....	11,655	165	1,203	2	49
2951	Paving mixtures and blocks.....	4,544	65	648	...	...
2952	Roofing felts and coatings.....	7,111	100	555	2	49
299	Petroleum and coal products, n.e.c.....	3,585	112	916	(4)	(5)
2992	Lubricants, n.e.c.....	1,824	40	306	(4)	(5)
2999	Petroleum and coal products, n.e.c.....	1,761	72	610	...	...
30	RUBBER PRODUCTS.....	56,750	2,234	14,522	1	15
3011	Tires and inner tubes.....	24,508	1,328	8,263	...	...
3021	Rubber footwear.....	1,855	20	194	(4)	(5)
3031	Reclaimed rubber.....	1,975	51	361	...	...
3099	Rubber industries, n.e.c.....	28,412	835	5,704	1	12
31	LEATHER AND LEATHER GOODS.....	24,011	610	6,547	1	16
3111	Leather tanning and finishing.....	12,727	461	5,038	1	15
3121	Industrial leather belting.....	378	2	25	...	...
3131	Footwear cut stock.....	1,516	12	127	...	...
314	Footwear, except rubber.....	7,624	122	1,209	(4)	(5)
3141	Footwear, except rubber.....	7,238	118	1,166	(4)	(5)
3142	House slippers.....	386	4	43	...	...
315	Leather gloves.....	214	2	34	...	...
3151	Leather dress gloves.....	116	1	17	...	...
3152	Leather work gloves.....	98	1	17	...	...
3161	Luggage.....	630	6	66	...	...
317	Purses and small leather goods.....	672	2	22	...	...
3171	Handbags and purses.....	499	1	15	...	...
3172	Small leather goods.....	173	1	7	...	...

See footnotes at end of table.

Fuel oil ¹		Gas ²		Other fuels, cost (\$1,000)	Electric energy						Code No.
Quantity (1,000 barrels)	Cost (\$1,000)	Quantity (million cu. ft.)	Cost (\$1,000)		Purchased		Generated (million kwh)	Sold			
					Quantity (million kwh)	Cost (\$1,000)		Quantity (million kwh)	Cost (\$1,000)		
1,542	3,990	2,560	925	487	892	9,965	103	28	
20	76	320	112	38	22	324	283	
481	1,132	305	129	135	269	2,671	85	2831	
1,041	2,782	1,935	684	314	601	6,970	18	2833	
883	2,664	5,342	1,570	811	266	3,666	94	6	66	2834	
664	1,829	3,427	792	207	154	1,992	94	6	66	284	
152	631	1,672	693	585	100	1,454	2841	
67	204	243	85	19	12	220	(7)	2842	
1,775	5,303	9,332	2,647	521	625	8,270	204	17	237	2843	
481	1,795	2,278	962	302	334	5,092	28	15	211	285	
1,282	3,468	6,990	1,658	211	287	3,072	176	2	26	2851	
12	40	64	27	8	4	106	2852	
238	671	4,142	831	291	65	730	150	4	30	2853	
8	30	664	166	20	8	82	32	1	18	286	
126	320	3,251	627	97	51	531	118	3	12	2861	
69	206	49	11	28	2	47	2862	
35	115	178	27	146	4	70	(7)	2863	
1,068	2,657	2,358	541	657	439	5,766	20	2865	
1,026	2,451	2,040	437	351	383	4,642	20	287	
42	206	318	104	306	56	1,124	(7)	2871	
1,490	4,587	15,057	3,754	1,088	1,358	16,831	76	1	11	2872	
66	261	7,027	1,492	74	677	6,826	6	288	
8	31	502	181	...	79	915	2881	
375	1,079	2,769	781	164	351	5,492	40	2882	
64	257	510	126	(5)	71	857	9	1	11	2883	
444	1,376	2,585	767	658	105	1,743	17	2884	
119	283	1,556	344	41	49	493	2	2886	
414	1,300	108	63	150	26	505	2	2887	
1,745	5,390	20,863	4,255	547	2,154	17,953	401	36	318	2889	
128	405	246	107	7	60	1,021	289	
23	67	4	(5)	12	5	90	(7)	2891	
213	646	558	230	94	53	966	3	2892	
657	1,707	1,166	360	36	49	763	43	2893	
10	25	6,208	654	...	197	1,717	18	2894	
158	619	1,726	371	82	1,436	9,442	190	(7)	(5)	2895	
89	351	3,511	631	28	73	1,012	57	33	276	2896	
20	85	3,789	708	29	86	352	90	2897	
447	1,485	3,655	1,193	259	195	2,590	(7)	(7)	39	2898	
4,190	10,856	875,006	103,371	5,366	6,702	56,052	4,332	455	1,827	2899	
2,059	4,179	539,726	81,792	1,992	5,580	43,630	4,023	449	1,740	29	
140	409	326,459	19,188	2,901	849	8,482	304	6	87	2911	
3	12	7	(5)	37	10	173			

Table 2.--FUELS AND ELECTRIC ENERGY USED BY MAJOR

Code No.	Industry and industry group	Total cost of fuels and purchased electric energy (\$1,000)	Bituminous coal and anthracite		Coke	
			Quantity (1,000 tons)	Cost (\$1,000)	Quantity (1,000 tons)	Cost (\$1,000)
31	LEATHER AND LEATHER GOODS--Continued					
319	Miscellaneous leather goods.....	250	3	26	...	...
3192	Saddlery, harness, and whips.....	70	2	16	...	...
3199	Leather goods, n.e.c.....	180	1	10	...	...
32	STONE, CLAY, AND GLASS PRODUCTS.....	369,859	13,634	95,803	191	3,439
3211	Flat glass.....	16,734	390	2,358	...	...
322	Pressed and blown glassware.....	55,148	319	2,069	(4)	(5)
3221	Glass containers.....	35,381	187	1,420	...	...
3229	Pressed and blown glassware, n.e.c.....	19,767	132	649	(4)	(5)
3231	Products of purchased glass.....	4,324	106	795	(4)	(5)
3241	Cement, hydraulic.....	128,728	7,701	52,773	(4)	(5)
325	Structural clay products.....	61,841	2,491	16,675	19	260
3251	Brick and hollow tile.....	35,735	1,117	8,189	17	224
3253	Floor and wall tile.....	3,089	5	25	...	...
3254	Sewer pipe.....	8,542	667	4,008	...	...
3255	Clay refractories.....	9,792	464	2,664	2	36
3259	Structural clay products, n.e.c.....	4,683	238	1,789	(4)	(5)
326	Pottery and related products.....	8,572	81	660	(4)	(5)
3261	Vitreous plumbing fixtures.....	1,396	...	...	...	...
3262	Vitreous-china food utensils.....	1,490	21	144	...	...
3263	Earthenware food utensils.....	1,905	19	163	(4)	(5)
3264	Porcelain electrical supplies.....	1,688	15	131	...	...
3265	China decorating for the trade.....	66	2	22	...	...
3269	Pottery products, n.e.c.....	2,027	24	200	...	...
327	Concrete and plaster products.....	55,396	1,907	14,856	143	2,642
3271	Concrete products.....	15,949	250	2,429	5	66
3272	Gypsum products.....	11,384	191	1,495	(4)	(5)
3274	Lime.....	18,838	1,330	10,032	36	547
3275	Mineral wool.....	9,225	136	900	102	2,027
3281	Cut-stone and stone products.....	9,166	81	776	3	52
329	Nonmetallic mineral products, n.e.c.....	29,950	558	4,841	26	480
3291	Abrasive products.....	6,312	137	1,310	24	438
3292	Asbestos products.....	5,933	149	1,149	(4)	5
3293	Gaskets and asbestos insulations.....	3,377	59	563	(4)	(5)
3295	Minerals: ground or treated.....	5,479	72	525	2	37
3297	Nonclay refractories.....	7,019	114	1,041	(4)	(5)
3298	Statuary and art goods.....	194	5	60	...	...
3299	Nonmetallic mineral products, n.e.c.....	1,386	22	193	(4)	(5)
33	PRIMARY METAL INDUSTRIES.....	1,716,502	9,860	66,884	53,219	847,903
331	Blast furnaces and steel mills.....	1,370,777	6,346	37,166	50,636	804,038
3312	Blast furnaces and steel mills.....	1,349,080	5,383	32,658	50,552	799,838
3313	Electrometallurgical products.....	21,697	963	4,508	84	1,200
332	Iron and steel foundries.....	96,738	637	6,027	2,060	34,614
3321	Gray-iron foundries.....	57,506	235	2,279	1,885	30,068
3322	Malleable-iron foundries.....	13,010	263	2,659	155	4,028
3323	Steel foundries.....	26,222	139	1,089	20	518
333	Primary nonferrous metals.....	112,962	1,134	10,235	442	6,601
3331	Primary copper.....	16,384	189	1,759	47	884
3332	Primary lead.....	7,041	112	1,086	208	3,992
3333	Primary zinc.....	17,397	467	3,676	181	1,614
3334	Primary aluminum.....	63,408	341	3,406	...	...
3339	Primary nonferrous metals, n.e.c.....	8,732	25	308	6	111
3341	Secondary nonferrous metals.....	10,446	122	890	57	1,138
335	Nonferrous rolling and drawing.....	43,928	533	4,386	3	66
3351	Copper rolling and drawing.....	20,209	252	2,203	(4)	5
3352	Aluminum rolling and drawing.....	19,227	263	2,028	3	60
3359	Rolling and drawing, n.e.c.....	4,492	18	155	(4)	(5)
3361	Nonferrous foundries.....	20,096	169	1,211	18	373
339	Primary metal industries, n.e.c.....	61,555	919	6,969	3	73
3391	Iron and steel forgings.....	24,031	476	3,454	3	58
3392	Wire drawing.....	17,365	215	1,781	(4)	(5)
3393	Welded and heavy-riveted pipe.....	8,265	81	573	(4)	8
3399	Primary metal industries, n.e.c.....	11,894	147	1,161	(4)	(5)

See footnotes at end of table.

INDUSTRY GROUP, 1954 AND 1947, AND BY INDUSTRY, 1954—Continued

Fuel oil ¹		Gas ²		Other fuels, cost (\$1,000)	Electric energy					Code No.
Quantity (1,000 barrels)	Cost (\$1,000)	Quantity (million cu. ft.)	Cost (\$1,000)		Purchased		Generated (million kwh)	Sold		
					Quantity (million kwh)	Cost (\$1,000)		Quantity (million kwh)	Cost (\$1,000)	
										31
5	28	141	55	...	6	141	...	...	...	319
3	14	40	10	...	1	30	...	...	...	3192
2	14	101	45	...	5	111	...	...	...	3193
15,690	51,194	390,841	112,441	11,866	9,157	95,116	2,510	94	628	32
20	79	29,427	9,845	35	480	4,417	147	...	...	3211
1,501	4,440	92,269	33,052	1,229	1,501	14,355	53	...	...	322
1,224	3,421	61,771	20,992	686	990	8,862	52	...	...	3221
277	1,019	30,498	12,060	543	511	5,493	1	...	...	3229
63	270	1,961	996	82	172	2,181	16	...	...	3231
5,774	17,531	125,202	27,114	375	3,643	30,934	2,116	32	182	3241
2,862	9,765	82,357	23,124	1,580	683	10,437	8	...	...	325
2,353	7,908	53,200	12,553	1,010	384	5,851	5	...	...	3251
46	228	4,853	2,029	29	61	778	...	...	...	3253
54	235	9,320	3,058	276	62	965	(7)	...	...	3254
277	892	9,830	3,888	144	138	2,168	2	...	...	3255
132	502	5,154	1,596	121	38	675	1	...	...	3259
334	1,397	7,433	3,336	167	223	3,011	8	...	...	326
102	380	512	229	36	63	751	2	...	...	3261
7	21	1,766	839	69	32	417	(7)	...	...	3262
31	145	2,597	1,013	20	40	563	(7)	...	...	3263
124	553	543	282	(3)	56	719	6	...	...	3264
3	11	29	18	...	1	15	...	...	...	3265
67	287	1,986	955	39	31	546	...	...	...	3269
3,008	10,171	35,673	9,859	3,577	1,115	14,291	25	...	...	327
947	4,168	5,641	1,582	3,116	232	4,588	...	...	...	3271
1,429	4,048	4,954	1,534	100	382	4,205	12	...	...	3272
413	1,343	13,993	3,432	214	270	3,270	11	...	...	3274
219	612	11,085	3,311	147	231	2,228	2	...	...	3275
163	729	248	81	3,964	219	3,564	49	31	238	3281
1,965	6,812	16,271	5,034	857	1,121	11,926	88	31	208	329
298	1,226	1,320	556	40	393	2,742	16	...	...	3291
356	894	2,799	830	102	290	3,003	61	31	208	3292
374	1,276	1,117	465	22	84	1,251	11	...	...	3293
222	993	4,995	1,063	438	172	2,423	(7)	...	...	3295
604	2,016	5,593	1,912	78	149	1,972	...	...	...	3297
7	32	73	32	8	3	62	...	...	...	3298
104	375	374	176	169	30	473	...	...	...	3299
56,253	175,527	3,508,987	293,043	31,799	46,418	305,346	23,271	3,757	34,375	33
43,959	133,708	3,253,143	224,036	26,800	17,667	148,029	12,997	3,301	31,387	331
43,893	133,376	3,252,956	223,955	26,727	14,062	132,526	10,588	3,215	30,784	3312
66	332	187	81	73	3,605	15,503	2,409	86	603	3313
2,008	8,506	34,017	13,217	1,229	2,518	33,145	69	...	...	332
701	3,354	17,651	6,044	810	1,077	14,951	13	...	...	3321
222	873	4,562	1,814	131	272	3,505	1	...	...	3322
1,085	4,279	11,804	5,359	288	1,169	14,689	55	...	...	3323
2,837	7,086	152,570	22,964	598	20,949	65,478	9,856	373	2,029	333
1,980	4,577	25,339	**5,541	276	524	3,347	393	171	1,488	3331
140	455	2,237	592	39	104	877	37	5	25	3332
17	76	20,557	3,834	33	1,501	8,164	185	...	...	3333
452	1,358	96,383	11,860	65	17,239	46,719	9,241	197	516	3334
248	620	8,054	1,137	185	1,581	6,371	(7)	...	...	3339
908	3,454	7,310	2,198	345	182	2,421	3	...	...	3341
1,756	5,909	17,732	9,426	1,308	2,462	22,833	229	54	670	335
1,010	3,195	4,678	3,060	727	898	11,019	169	39	490	3351
623	2,273	9,657	5,042	479	1,355	9,345	45	15	180	3352
123	441	3,397	1,324	102	209	2,469	15	...	...	3359
890	3,978	11,840	6,298	231	570	8,005	45	29	289	3361
3,895	12,886	32,375	14,904	1,288	2,070	25,435	72	...	...	339
2,576	8,853	13,002	5,189	412	483	6,065	14	...	...	3391
849	2,346	5,455	2,951	336	815	9,948	58	...	...	3392
139	489	6,666	2,845	231	347	4,119	...	...	...	3393
331	1,198	7,252	3,919	309	425	5,303	(7)	...	...	3399

Table 2.—FUELS AND ELECTRIC ENERGY USED, BY MAJOR INDUSTRY

Code No.	Industry and industry group	Total cost of fuels and purchased electric energy (\$1,000)	Bituminous coal and anthracite		Coke	
			Quantity	Cost	Quantity	Cost
			(1,000 tons)	(\$1,000)	(1,000 tons)	(\$1,000)
34	FABRICATED METAL PRODUCTS.....	159,838	1,716	14,036	163	3,865
3411	Tin cans and other tinware.....	9,704	93	765	...	...
342	Cutlery, tools, and hardware.....	20,230	275	2,608	20	347
3421	Cutlery.....	1,862	11	113	1	13
3422	Edge tools.....	949	9	97	1	12
3423	Hand tools, n.e.c.....	4,159	38	368	10	149
3424	Files.....	610	8	100	...	...
3425	Hand saws and saw blades.....	1,317	10	106	(4)	(5)
3429	Hardware, n.e.c.....	11,333	199	1,824	8	173
343	Heating and plumbing equipment.....	21,433	215	1,820	105	2,737
3431	Plumbing fixtures and fittings.....	9,129	77	691	58	1,559
3439	Heating and cooking equipment, n.e.c.....	12,304	138	1,129	47	1,178
344	Structural metal products.....	35,661	377	2,475	31	651
3441	Structural and ornamental work.....	13,867	78	692	18	342
3442	Metal doors, sash, and trim.....	5,265	52	404	(4)	7
3443	Boiler shop products.....	11,482	177	836	13	293
3444	Sheet-metal work.....	5,047	70	543	(4)	(5)
346	Metal stamping and coating.....	34,862	370	3,245	6	94
3461	Vitreous-enamelled products.....	2,119	22	139	...	...
3463	Metal stampings.....	19,716	251	2,182	3	48
3465	Enameling and lacquering.....	1,203	6	63	...	...
3466	Galvanizing.....	874	7	67	1	17
3467	Engraving on metal.....	279	1	10	...	...
3468	Plating and polishing.....	10,671	83	784	2	29
3471	Lighting fixtures.....	6,690	127	968	(4)	(5)
348	Fabricated wire products.....	7,662	64	607	1	16
3481	Nails and spikes.....	377	5	45	(4)	(5)
3489	Wirework, n.e.c.....	7,285	59	562	1	14
349	Metal products, n.e.c.....	23,596	195	1,548	1	16
3491	Metal barrels, drums, and pails.....	2,400	7	59	(4)	(5)
3492	Safes and vaults.....	351	10	54	...	...
3493	Steel springs.....	2,485	16	126	(4)	(5)
3494	Bolts, nuts, washers, and rivets.....	9,154	107	802	1	11
3495	Screw machine products.....	4,103	21	210	(4)	(5)
3496	Collapsible tubes.....	767	4	30	...	...
3497	Metal foil.....	1,506	11	84	...	...
3499	Fabricated metal products, n.e.c.....	2,830	19	183	(4)	(5)
35	MACHINERY, EXCEPT ELECTRICAL.....	217,848	3,249	25,606	327	7,942
351	Engines and turbines.....	15,212	315	2,430	8	260
3511	Steam engines and turbines.....	7,242	134	1,173	(4)	11
3519	Internal combustion engines.....	7,970	181	1,257	8	249
352	Tractors and farm machinery.....	25,777	824	5,404	100	2,599
3521	Tractors.....	13,726	471	2,911	58	1,557
3522	Farm machinery (except tractors).....	12,051	353	2,493	42	1,042
353	Construction and mining machinery.....	32,202	240	1,909	25	557
3531	Construction and mining machinery.....	27,660	214	1,753	17	392
3532	Oil-field machinery and tools.....	4,542	26	156	8	165
354	Metalworking machinery.....	28,570	361	2,779	18	372
3541	Machine tools.....	8,450	84	726	8	197
3542	Metalworking machinery.....	7,466	115	833	8	125
3544	Special dies and tools.....	7,556	139	993	2	47
3545	Metalworking machinery attachments.....	5,098	23	227	(4)	(5)
355	Special-industry machinery, n.e.c.....	17,583	160	1,615	27	944
3551	Food-products machinery.....	3,141	29	282	2	44
3552	Textile machinery.....	3,485	44	436	11	195
3553	Woodworking machinery.....	1,427	11	121	6	141
3554	Paper-industries machinery.....	2,151	16	163	11	247
3555	Printing-trades machinery.....	1,978	24	259	3	62
3559	Special-industry machinery, n.e.c.....	5,401	36	354	11	255
356	General industrial machinery.....	28,215	402	3,876	46	1,095
3561	Pumps and compressors.....	7,730	119	1,326	24	581
3562	Elevators and escalators.....	1,043	11	134	2	53
3563	Conveyors.....	3,753	59	515	4	99
3564	Blowers and fans.....	1,683	24	212	2	38
3565	Industrial trucks and tractors.....	1,829	27	239	2	42
3566	Power-transmission equipment.....	7,574	81	697	10	219
3567	Industrial furnaces and ovens.....	868	3	37	...	...
3568	Mechanical stokers.....	177	4	42	2	53
3569	General industrial machinery, n.e.c.....	3,558	74	674	(4)	10

See footnotes at end of table.

FUELS AND ELECTRIC ENERGY CONSUMED

208-17

GROUP; 1954 AND 1947 AND BY INDUSTRY, 1954—Continued

Fuel oil		Gas		Other fuels, (cost)	Electric energy					Code No.
Quantity	Cost	Quantity	Cost		Purchased		Generated	Sold		
					Quantity	Cost		Quantity	Cost	
(1,000 barrels)	(\$1,000)	(million cubic feet)	(\$1,000)	(\$1,000)	(million kwh)	(\$1,000)	(million kwh)	(million kwh)	(\$1,000)	
6,237	23,651	58,540	27,182	4,890	5,800	86,214	87	1	72	34
273	812	6,063	2,747	643	386	4,737	8	...	...	3411
1,082	3,817	4,527	2,559	279	707	10,620	32	1	67	342
155	491	150	135	6	59	1,104	6	(7)	(5)	3421
39	175	490	195	7	25	463	3	...	...	3422
210	861	1,412	686	49	128	2,046	2	...	...	3423
54	152	63	54	3	18	301	...	...	...	3424
57	197	317	316	38	41	660	3	1	67	3425
567	1,941	2,095	1,173	176	436	6,046	18	...	...	3429
874	3,308	10,832	4,328	450	628	8,790	15	...	...	343
430	1,677	4,898	1,997	131	229	3,074	13	...	...	3431
444	1,631	5,934	2,331	319	399	5,716	2	...	...	3439
1,178	4,865	11,441	4,907	2,363	1,357	20,400	12	(7)	5	344
465	2,091	5,039	1,474	1,314	520	7,954	2	...	...	3441
164	686	1,696	1,091	120	181	2,957	(7)	...	...	3442
355	1,401	2,922	1,488	761	498	6,703	7	(7)	5	3443
194	687	1,784	854	168	158	2,786	3	...	...	3444
1,384	5,425	12,244	6,138	570	1,235	19,390	5	(7)	(5)	346
86	372	1,952	929	29	52	650	...	...	...	3461
742	2,772	4,944	2,695	338	783	11,681	1	...	...	3463
31	142	1,158	505	30	28	463	...	...	...	3465
44	177	737	353	19	13	241	...	...	...	3466
13	46	115	74	(5)	7	148	(7)	...	...	3467
468	1,916	3,338	1,582	153	352	6,207	4	(7)	(5)	3468
192	745	2,389	839	167	291	3,967	(7)	...	...	3471
381	1,331	1,890	1,050	192	281	4,466	(7)	...	...	348
12	48	89	40	13	12	229	(7)	...	...	3481
369	1,283	1,801	1,010	179	269	4,237	(7)	...	...	3489
873	3,348	9,154	4,614	226	915	13,844	15	...	...	349
90	308	1,298	579	27	86	1,427	...	...	...	3491
10	38	57	32	...	16	227	...	...	...	3492
36	203	2,220	1,134	13	92	1,008	2	...	...	3493
417	1,444	3,046	1,686	82	346	5,129	12	...	...	3494
133	619	744	396	46	143	2,828	1	...	...	3495
19	61	873	335	(5)	24	340	...	...	...	3496
46	184	332	197	8	95	1,033	...	...	...	3497
122	491	584	255	49	113	1,852	(7)	...	...	3499
7,546	27,275	61,177	26,108	22,969	7,581	107,948	593	116	1,410	35
1,167	3,459	2,320	1,546	1,826	470	5,691	214	90	1,130	351
802	1,911	768	741	1,400	180	2,006	154	90	1,130	3511
365	1,548	1,552	805	426	290	3,685	60	...	...	3519
482	1,941	8,240	3,362	1,596	864	10,875	122	(7)	3	352
172	655	3,384	1,617	1,238	533	5,748	72	(7)	(5)	3521
310	1,286	4,856	1,745	358	331	5,127	50	...	...	3522
423	1,556	9,585	2,982	16,239	701	8,959	13	...	...	353
411	1,502	2,683	1,815	15,990	428	6,208	13	...	...	3531
12	54	6,902	1,167	249	273	2,751	(7)	...	...	3532
963	3,906	7,079	3,268	352	1,122	17,893	57	26	277	354
318	1,265	985	513	121	366	5,628	11	...	...	3541
221	833	3,141	1,347	90	284	4,238	6	...	...	3542
237	1,101	1,493	878	111	243	4,426	39	26	262	3544
187	707	1,460	530	30	229	3,601	1	(7)	15	3545
875	3,067	2,823	1,328	517	593	10,112	25	...	...	355
124	462	763	271	103	112	1,979	1	...	...	3551
245	768	259	164	47	110	1,875	17	...	...	3552
47	205	250	129	28	53	803	(7)	...	...	3553
120	413	139	112	110	67	1,106	(7)	...	...	3554
74	266	134	102	30	72	1,259	...	...	...	3555
265	953	1,278	550	199	179	3,090	7	...	...	3559
1,063	3,943	7,350	3,114	649	1,043	15,538	73	...	...	356
294	1,059	2,054	735	160	256	3,869	31	...	...	3561
70	210	234	86	8	35	552	3	...	...	3562
138	574	690	337	103	134	2,125	1	...	...	3563
60	239	665	215	44	59	935	4	...	...	3564
52	214	274	125	116	70	1,093	(7)	...	...	3565
234	859	2,445	1,179	91	321	4,529	1	...	...	3566
23	105	484	219	37	25	470	(7)	...	...	3567
(9)	(5)	8	5	(5)	4	74	1	...	...	3568
192	680	496	213	90	139	1,891	32	...	...	3569

Table 2.—FUELS AND ELECTRIC ENERGY USED, BY MAJOR INDUSTRY

Code No.	Industry and industry group	Total cost of fuels and purchased electric energy (\$1,000)	Bituminous coal and anthracite		Coke	
			Quantity (1,000 tons)	Cost (\$1,000)	Quantity (1,000 tons)	Cost (\$1,000)
35	MACHINERY, EXCEPT ELECTRICAL--Continued					
357	Office and store machines.....	6,136	120	1,075	3	50
3571	Computing and related machines.....	2,579	47	404	1	9
3572	Typewriters.....	1,395	35	313	...	...
3576	Scales and balances.....	660	15	156	2	41
3579	Office and store machines, n.e.c.....	1,502	23	202	...	...
358	Service and household machines.....	28,378	522	4,045	7	166
3581	Domestic laundry equipment.....	3,725	89	708	2	49
3582	Laundry and dry-cleaning machinery.....	698	15	126	...	...
3583	Sewing machines.....	1,330	34	331	3	67
3584	Vacuum cleaners.....	953	10	55	...	...
3585	Refrigeration machinery.....	19,401	357	2,684	2	50
3586	Measuring and dispensing pumps.....	952	10	85	...	...
3589	Service and household machines, n.e.c.....	1,319	7	56	(4)	(5)
359	Miscellaneous machinery parts.....	35,775	305	2,473	93	1,899
3591	Valves and fittings, except plumbing.....	12,479	127	1,043	74	1,733
3592	Fabricated pipe and fittings.....	1,750	15	125	(4)	(5)
3593	Ball and roller bearings.....	7,425	78	465	(4)	(5)
3594	Industrial patterns and molds.....	1,595	12	127	(4)	(5)
3599	Machine shops.....	12,526	73	713	19	159
36	ELECTRICAL MACHINERY.....	101,163	1,448	11,329	20	465
361	Electrical industrial apparatus.....	45,294	705	5,553	15	367
3611	Wiring devices and supplies.....	5,164	63	502	6	145
3612	Carbon and graphite products.....	7,136	141	893	2	21
3613	Electrical measuring instruments.....	2,102	13	116	(4)	(5)
3614	Motors and generators.....	14,567	257	2,176	3	75
3615	Transformers.....	5,575	146	1,196	...	...
3616	Electrical control apparatus.....	7,382	69	512	4	126
3617	Electrical welding apparatus.....	1,333	9	79	...	...
3619	Electrical industrial apparatus, n.e.c.....	2,035	7	79	...	...
3621	Electrical appliances.....	6,173	116	946	(4)	9
3631	Insulated wire and cable.....	3,361	19	166	...	...
3641	Engine electrical equipment.....	4,313	89	677	...	...
3651	Electric lamps (bulbs).....	3,125	5	45	...	...
366	Communication equipment.....	31,105	448	3,397	3	38
3661	Radios and related products.....	17,153	164	1,189	(4)	5
3662	Electronic tubes.....	8,233	41	346	1	15
3663	Phonograph records.....	1,034	19	168	...	...
3664	Telephone and telegraph equipment.....	3,764	200	1,528	1	9
3669	Communication equipment, n.e.c.....	921	24	166	1	9
369	Electrical products, n.e.c.....	7,792	66	545	2	51
3691	Storage batteries.....	5,112	25	200	2	47
3692	Primary batteries.....	1,068	30	257	...	...
3693	X-ray and therapeutic apparatus.....	660	8	63	(4)	(5)
3699	Electrical products, n.e.c.....	952	3	25	...	...
37	TRANSPORTATION EQUIPMENT.....	217,889	4,217	32,461	198	4,542
371	Motor vehicles and equipment.....	125,909	3,039	24,034	174	3,991
3713	Truck and bus bodies.....	2,101	32	294	(4)	(5)
3715	Truck trailers.....	2,138	24	209	(4)	(5)
3716	Automobile trailers.....	996	8	96	(4)	(5)
3717	Motor vehicles and parts.....	120,674	2,975	23,435	174	3,986
372	Aircraft and parts.....	66,503	615	3,892	11	248
3721	Aircraft.....	22,835	139	724	...	...
3722	Aircraft engines.....	27,446	328	2,143	(4)	11
3723	Aircraft propellers.....	2,456	21	84	...	...
3729	Aircraft equipment, n.e.c.....	13,766	127	941	11	237
373	Ships and boats.....	14,414	148	1,376	4	93
3731	Ship building and repairing.....	13,064	135	1,242	4	90
3732	Boat building and repairing.....	1,350	13	134	(4)	(5)
374	Railroad equipment.....	9,798	397	2,939	9	210
3741	Locomotives and parts.....	4,497	232	1,691	2	40
3742	Railroad and street cars.....	5,301	165	1,248	7	170
3751	Motorcycles and bicycles.....	1,061	15	185	...	...
3799	Transportation equipment, n.e.c.....	204	3	35	...	...

See footnotes at end of table.

FUELS AND ELECTRIC ENERGY CONSUMED

208-19

GROUP; 1954 AND 1947 AND BY INDUSTRY, 1954—Continued

Fuel oil		Gas		Other fuels, (cost)	Electric energy					Code No.
Quantity	Cost	Quantity (million cubic feet)	Cost		Purchased		Generated	Sold		
					Quantity	Cost		Quantity	Cost	
(1,000 barrels)	(\$1,000)	(million cubic feet)	(\$1,000)	(\$1,000)	(million kwh)	(\$1,000)	(million kwh)	(million kwh)	(\$1,000)	
316	958	825	447	87	239	3,519	68	...	...	357
143	427	321	184	63	108	1,492	68	...	...	3571
88	217	84	78	...	54	787	...	...	...	3572
22	77	109	64	9	15	313	(?)	...	...	3576
63	237	312	121	15	62	927	...	...	...	3579
773	2,676	10,421	4,664	873	1,250	15,954	3	...	...	358
69	252	1,204	716	100	146	1,900	3	...	...	3581
32	143	155	60	(?)	21	367	(?)	...	...	3582
57	175	69	58	...	47	699	...	...	...	3583
55	180	281	141	(?)	37	576	...	...	...	3584
412	1,420	8,103	3,416	745	911	11,086	(?)	...	...	3585
59	190	182	103	10	36	564	...	...	...	3586
89	316	427	170	15	52	762	(?)	...	...	3589
1,484	5,769	12,534	5,397	830	1,299	19,407	18	...	...	359
535	2,002	5,186	2,001	163	387	5,537	9	...	...	3591
54	216	995	357	25	59	1,023	...	...	...	3592
306	825	1,888	940	439	378	4,755	...	...	...	3593
61	378	489	310	7	38	771	(?)	...	...	3594
528	2,348	3,976	1,789	196	437	7,321	9	...	...	3599
3,433	11,105	22,024	10,309	4,696	5,134	63,259	489	19	227	36
1,431	4,782	9,090	4,787	3,057	2,325	26,748	305	...	...	361
232	820	1,649	890	68	180	2,739	9	...	...	3611
144	636	2,359	1,009	...	617	4,577	9	...	...	3612
121	348	212	193	9	98	1,436	...	...	...	3613
228	783	2,121	1,009	1,904	730	8,620	133	...	...	3614
208	629	1,282	881	174	213	2,695	149	...	...	3615
307	1,031	828	442	796	330	4,475	4	...	...	3616
68	157	454	240	49	53	808	1	...	...	3617
123	378	185	123	57	104	1,398	...	...	...	3619
207	733	2,660	1,042	64	288	3,379	6	...	...	3621
271	708	493	246	89	160	2,152	(?)	...	...	3631
55	214	1,437	542	30	237	2,850	9	2	(?)	3641
87	228	1,748	798	36	163	2,018	...	...	...	3651
1,123	3,662	4,820	2,119	1,035	1,556	20,854	161	17	223	366
762	2,527	1,740	907	254	861	12,271	53	16	215	3661
200	610	2,282	883	335	513	6,044	...	...	...	3662
72	216	132	62	87	34	501	...	...	...	3663
76	259	433	164	256	116	1,548	108	1	8	3664
13	50	233	103	103	32	490	...	...	...	3669
259	778	1,776	775	385	405	5,258	8	...	...	369
149	419	1,137	487	358	296	3,601	8	...	...	3691
25	77	370	137	9	43	588	...	...	...	3692
21	70	46	27	7	33	489	(?)	...	...	3693
64	212	223	124	11	33	580	...	...	...	3699
6,691	23,968	45,698	20,761	12,657	11,118	123,500	1,600	914	11,295	37
2,769	9,243	27,356	14,194	7,570	5,785	66,877	1,420	870	10,843	371
46	210	500	216	32	79	1,346	(?)	...	...	3713
121	475	396	133	116	78	1,203	...	...	...	3715
43	190	284	130	46	27	534	(?)	...	...	3716
2,559	8,368	26,176	13,715	7,376	5,601	63,794	1,420	870	10,843	3717
2,616	9,915	14,540	5,019	3,769	4,307	43,660	18	2	9	372
678	1,905	7,526	2,179	514	2,001	17,513	(?)	...	...	3721
1,486	6,366	2,727	1,275	2,654	1,382	14,997	8	...	...	3722
147	411	309	133	62	150	1,766	...	...	...	3723
308	1,233	3,978	1,432	539	774	9,384	10	2	9	3729
774	2,779	1,517	551	1,120	675	8,495	18	...	...	373
743	2,634	1,214	471	1,031	627	7,596	18	...	...	3731
31	145	303	80	89	48	899	...	...	...	3732
475	1,842	1,903	777	191	312	3,839	144	42	443	374
209	829	536	233	40	154	1,664	110	42	440	3741
266	1,013	1,367	544	151	158	2,175	34	(?)	(?)	3742
48	154	334	194	(?)	35	524	...	...	...	3751
9	35	48	26	(?)	4	105	...	...	...	3799

Table 2.—FUELS AND ELECTRIC ENERGY USED, BY MAJOR INDUSTRY

Code No.	Industry and industry group	Total cost of fuels and purchased electric energy (\$1,000)	Bituminous coal and anthracite		Coke	
			Quantity	Cost	Quantity	Cost
			(1,000 tons)	(\$1,000)	(1,000 tons)	(\$1,000)
38	INSTRUMENTS AND RELATED PRODUCTS.....	21,796	533	4,816	2	67
3811	Scientific instruments.....	2,427	2	27	(⁴)	9
3821	Mechanical measuring instruments.....	4,929	40	390	2	53
3831	Optical instruments and lenses.....	1,166	19	192	...	...
384	Medical equipment and supplies.....	3,363	42	364	(⁴)	(⁵)
3841	Surgical and medical instruments.....	489	2	18	...	...
3842	Surgical appliances and supplies.....	2,270	36	296	...	...
3843	Dental equipment and supplies.....	604	4	50	(⁴)	(⁵)
3851	Ophthalmic goods.....	1,725	9	96	...	...
3861	Photographic equipment.....	6,654	389	3,385	...	...
387	Watches and clocks.....	1,532	32	362	(⁴)	(⁵)
3871	Watches and clocks.....	1,277	28	322	(⁴)	(⁵)
3872	Watchcases.....	255	4	40	...	...
39	MISCELLANEOUS MANUFACTURES.....	80,978	954	8,055	8	162
391	Jewelry and silverware.....	3,985	34	353	...	...
3911	Jewelry (precious metal).....	1,021	7	74	...	...
3912	Jewelers' findings.....	573	(⁴)	(⁵)	...	...
3913	Lapidary work.....	75	1	11	...	...
3914	Silverware and plated ware.....	2,316	26	264	...	...
393	Musical instruments and parts.....	1,405	38	330	3	66
3931	Pianos.....	549	23	183	...	...
3932	Organs.....	128	4	34	(⁴)	(⁵)
3933	Piano and organ parts.....	349	6	61	3	65
3939	Musical instruments, n.e.c.....	379	5	52	...	...
394	Toys and sporting goods.....	7,320	78	738	(⁴)	7
3941	Games and toys, n.e.c.....	2,934	24	225	(⁴)	5
3942	Dolls.....	1,054	7	79	...	...
3943	Children's vehicles.....	756	5	76	...	...
3949	Sporting and athletic goods.....	2,576	42	378	(⁴)	(⁵)
395	Office supplies.....	2,402	17	211	...	...
3951	Pens and mechanical pencils.....	753	2	24	...	...
3952	Lead pencils and crayons.....	577	8	97	...	...
3953	Hand stamps and stencils.....	406	2	28	...	...
3954	Artists' materials.....	161	1	20	...	...
3955	Carbon paper and inked ribbons.....	505	4	42	...	...
396	Costume jewelry and notions.....	4,710	54	587	1	8
3961	Costume jewelry.....	1,488	9	95	...	...
3962	Artificial flowers.....	320	6	62	...	...
3963	Buttons.....	796	7	73	...	...
3964	Needles, pins, and fasteners.....	2,106	32	357	1	8
3971	Plastics products, n.e.c.....	20,019	236	1,917	(⁴)	6
398	Miscellaneous manufactures.....	41,137	497	3,919	4	75
3981	Brooms and brushes.....	1,242	15	170	...	...
3982	Cork products.....	669	33	180	...	...
3983	Matches.....	621	35	243	...	...
3984	Candles.....	401	5	42	...	...
3985	Fireworks and pyrotechnics.....	244	4	47	...	...
3986	Jewelry and instrument cases.....	559	6	58	...	...
3987	Lamp shades.....	289	5	58	...	...
3988	Morticians' goods.....	1,623	41	391	(⁴)	2
3991	Beauty and barber-shop equipment.....	267	3	31	...	...
3992	Furs, dressed and dyed.....	213	5	49	(⁴)	(⁵)
3993	Signs and advertising displays.....	2,293	24	251	(⁴)	(⁵)
3994	Hairwork.....	57	1	12	...	...
3995	Umbrellas, parasols, and canes.....	202	4	36	...	...
3996	Tobacco pipes.....	95	2	26	...	...
3997	Soda-fountain and bar equipment.....	142	4	39	...	...
3999	Miscellaneous products, n.e.c.....	1,914	27	259	...	...
19--	Ordnance and accessories.....	30,306	283	2,027	4	70
1951	Small arms.....	1,776	20	182	...	...
1961	Small arms ammunition.....	5,135	72	445	1	14

* Revised. NA Not available. ¹Includes distillate and residual oil. ²Includes natural, manufactured and mixed gas. ³The sum of the detail fuels and electric energy costs do not add to the all industries total because detailed fuel figures are not available for Major Industries 23 apparel and Related Products, and 27 Printing and Publishing industries. The principal fuels included in this column are gasoline, liquefied petroleum gas and wood. ⁴Less than 500 tons. ⁵Less than \$5,000. ⁶Detail fuels figures not available. ⁷Less than 500 thousand KWH. ⁸Less than 500 thousand cubic feet. ⁹Less than 500 barrels. ** Revised. Revision made too late to be included in Volume II (Industry Statistics) and Volume III (Area Statistics).

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Fuel oil		Gas		Other fuels, (cost)	Electric energy					Code No.
Quantity (1,000 barrels)	Cost (\$1,000)	Quantity (million cubic feet)	Cost (\$1,000)		Purchased		Generated (million kwh)	Sold		
					Quantity (million kwh)	Cost (\$1,000)		Quantity (million kwh)	Cost (\$1,000)	
889	3,009	4,841	1,915	585	728	11,404	277	9	59	38
137	492	222	135	40	112	1,724	...	...	...	3811
172	588	2,301	643	120	215	3,135	3	(7)	(5)	3821
33	135	523	200	...	39	639	...	...	...	3831
236	799	727	386	43	108	1,767	1	(7)	(5)	384
27	120	89	86	12	13	253	...	...	...	3841
179	571	534	226	21	78	1,156	1	...	...	3842
30	108	104	74	10	17	358	(7)	(7)	(5)	3843
110	323	574	296	186	47	824	14	...	...	3851
151	504	422	195	195	153	2,375	254	9	59	3861
50	168	72	60	(5)	54	940	5	...	...	387
44	144	53	41	(5)	44	768	5	...	...	3871
6	24	19	19	...	10	172	...	...	...	3872
4,608	14,923	21,295	7,983	2,339	3,255	47,516	125	26	482	39
285	857	709	555	27	124	2,193	18	8	292	391
48	172	170	135	10	30	630	...	...	...	3911
25	98	104	151	...	16	320	...	...	...	3912
2	11	17	8	...	2	45	...	...	...	3913
210	576	418	261	17	76	1,198	18	8	292	3914
65	203	170	69	(5)	39	733	2	...	...	393
39	101	2	(5)	...	15	263	2	...	...	3931
7	23	29	14	...	2	56	...	...	...	3932
7	25	77	23	(5)	10	171	(7)	...	...	3933
12	54	62	30	...	12	243	...	...	...	3939
306	1,171	1,423	623	79	289	4,702	1	...	...	394
122	482	595	274	24	117	1,924	1	...	...	3941
22	82	63	48	...	58	845	...	...	...	3942
57	206	237	94	21	23	379	...	...	...	3943
105	401	528	207	34	91	1,554	...	...	...	3949
140	477	436	218	37	82	1,459	2	...	...	395
34	121	103	51	12	34	545	...	...	...	3951
48	147	89	58	(5)	18	274	2	...	...	3952
21	81	142	67	...	11	230	(7)	...	...	3953
7	30	14	8	(5)	4	102	...	...	...	3954
30	98	88	34	23	15	308	(7)	...	...	3955
271	917	556	399	28	144	2,771	28	...	...	396
71	278	98	121	(5)	49	992	(7)	...	...	3961
14	63	46	20	...	9	175	...	...	...	3962
24	100	122	61	24	28	538	(7)	...	...	3963
162	476	290	197	(5)	58	1,066	28	...	...	3964
1,150	3,717	3,050	1,212	266	874	12,901	31	18	185	3971
3,391	7,581	14,951	4,907	1,898	1,703	22,757	43	(7)	5	398
63	216	207	111	26	36	719	1	(7)	(5)	399
73	204	60	29	(5)	17	255	6	...	...	3982
20	82	546	42	...	18	254	5	...	...	3983
43	156	122	94	(5)	6	108	(7)	...	...	3984
22	97	11	(5)	(5)	4	94	...	...	...	3985
35	119	56	22	(5)	21	357	...	...	...	3986
15	62	17	8	(5)	7	160	...	...	...	3987
43	170	354	132	49	43	879	2	...	...	3988
3	16	44	20	101	5	99	...	...	...	3991
22	22	14	10	...	7	130	(7)	...	...	3992
73	303	1,139	436	159	63	1,143	1	(7)	(5)	3993
3	13	4	(5)	...	1	29	...	...	...	3994
23	74	12	10	...	4	82	(7)	...	...	3995
4	17	2	(5)	...	3	51	...	...	...	3996
4	20	14	6	7	3	70	...	...	...	3997
133	441	313	212	26	54	976	...	...	...	3999
1,812	5,569	12,036	3,767	1,522	1,411	17,351	28	(7)	(5)	19--
182	456	317	160	14	65	964	(7)	(7)	(5)	1951
440	1,173	2,881	926	157	195	2,420	11	...	...	196

MANUFACTURES—SUMMARY STATISTICS

Table 3.—FUELS AND ELECTRIC ENERGY USED IN THE MANUFACTURING

	Division and State	Total cost of fuels and pur- chased electric energy ¹ (\$1,000)	Bituminous coal and anthracite		Coke	
			Quantity	Cost	Quantity	Cost
			(1,000 tons)	(\$1,000)	(1,000 tons)	(\$1,000)
1	United States.....1954..	4,924,729	91,457	676,804	54,371	867,865
2	.....1947..	3,331,518	110,869	692,827	66,171	729,403
3	New England.....1954..	265,539	3,044	36,380	269	4,975
4	.....1947..	223,751	5,938	57,388	388	6,002
5	Maine.....1954..	30,692	870	10,023	12	125
6	.....1947..	24,496	1,092	11,708	11	166
7	New Hampshire.....1954..	19,337	223	4,763	2	70
8	.....1947..	11,894	521	5,080	15	229
9	Vermont.....1954..	7,361	143	1,623	24	277
10	.....1947..	5,610	199	1,905	9	155
11	Massachusetts.....1954..	117,010	1,120	12,375	187	3,441
12	.....1947..	105,176	2,502	23,515	280	4,166
13	Rhode Island.....1954..	22,272	66	787	6	144
14	.....1947..	21,947	286	2,922	14	255
15	Connecticut.....1954..	68,867	622	6,809	38	918
16	.....1947..	54,628	1,338	12,258	59	1,031
17	Middle Atlantic.....1954..	1,201,358	22,687	177,168	17,393	265,842
18	.....1947..	920,281	31,675	197,738	23,577	237,691
19	New York.....1954..	388,951	7,539	69,079	3,248	49,743
20	.....1947..	276,842	9,093	66,155	4,307	49,656
21	New Jersey.....1954..	165,629	2,887	25,089	151	3,140
22	.....1947..	124,539	4,094	28,706	242	3,611
23	Pennsylvania.....1954..	646,778	12,261	83,000	13,994	212,959
24	.....1947..	518,900	18,488	102,877	19,028	184,424
25	East North Central.....1954..	1,633,561	38,172	271,261	23,359	391,738
26	.....1947..	1,177,050	44,409	261,015	27,279	324,831
27	Ohio.....1954..	581,165	12,763	82,066	10,603	152,929
28	.....1947..	411,986	14,539	79,854	12,704	132,090
29	Indiana.....1954..	311,522	4,942	31,122	6,422	115,368
30	.....1947..	206,764	5,869	30,855	6,389	83,083
31	Illinois.....1954..	326,457	7,610	48,528	3,987	78,771
32	.....1947..	260,505	10,608	51,542	5,700	78,210
33	Michigan.....1954..	307,604	8,821	72,645	2,215	41,683
34	.....1947..	221,001	9,229	65,303	2,293	28,232
35	Wisconsin.....1954..	106,813	4,036	36,900	132	2,987
36	.....1947..	76,794	4,164	33,461	193	3,216
37	West North Central.....1954..	218,666	4,666	33,149	685	12,685
38	.....1947..	136,072	5,855	33,673	819	10,557
39	Minnesota.....1954..	60,098	1,145	10,590	548	9,393
40	.....1947..	39,948	1,228	10,441	573	6,553
41	Iowa.....1954..	42,054	1,421	10,034	55	1,101
42	.....1947..	27,761	1,812	9,786	123	2,005
43	Missouri.....1954..	66,875	1,451	8,208	64	1,687
44	.....1947..	40,708	1,998	9,419	88	1,453
45	North Dakota.....1954..	1,305	63	410	(5)	9
46	.....1947..	1,100	103	427	(5)	(6)
47	South Dakota.....1954..	2,506	38	370	(5)	20
48	.....1947..	1,832	119	626	(5)	8
49	Nebraska.....1954..	17,355	165	1,134	11	273
50	.....1947..	7,610	207	1,189	12	228
51	Kansas.....1954..	28,473	383	2,403	7	202
52	.....1947..	17,113	388	1,785	23	307
53	South Atlantic.....1954..	511,030	14,713	105,077	4,843	65,885
54	.....1947..	327,247	14,239	92,225	4,956	48,986
55	Delaware.....1954..	12,074	189	1,451	1	37
56	.....1947..	10,778	309	2,252	20	170
57	Maryland.....1954..	116,784	1,117	8,335	3,120	43,495
58	.....1947..	74,552	1,582	10,332	2,470	26,537
59	District of Columbia.....1954..	2,155	11	114	...	...
60	.....1947..	1,605	23	217	...	...
61	Virginia.....1954..	69,906	4,120	32,673	126	3,213
62	.....1947..	49,725	3,704	26,140	534	7,426
63	West Virginia.....1954..	91,888	3,728	19,107	1,565	18,061
64	.....1947..	67,304	3,993	117,569	1,863	13,885
65	North Carolina.....1954..	72,852	2,183	18,838	13	337
66	.....1947..	45,982	2,287	17,463	16	263
67	South Carolina.....1954..	56,528	2,202	18,169	5	112
68	.....1947..	29,467	1,408	11,229	16	182
69	Georgia.....1954..	50,607	1,083	5,622	10	237
70	.....1947..	32,677	876	6,580	30	423
71	Florida.....1954..	38,236	80	768	3	393
72	.....1947..	15,157	56	443	7	100

See footnotes at end of table.

FUELS AND ELECTRIC ENERGY CONSUMED

208-23

INDUSTRIES, BY DIVISIONS AND STATES: 1954 and 1947

Fuel oil ²		Gas ³		Other fuels ⁴	Fuels, not specified by kind	Electric energy			Generated less sold	
Quantity (1,000 barrels)	Cost (\$1,000)	Quantity (million cu. ft.)	Cost (\$1,000)			Purchased		Sold (\$1,000)		
						Quantity (million kwh)	Cost (\$1,000)			
185,541	578,220	5,914,855	847,268	200,553	28,669	187,027	1,725,350	85,830	60,639	1
166,947	474,945	4,004,953	383,169	96,457	...	102,822	954,717	40,815	38,125	2
27,130	76,289	18,257	11,152	13,519	1,549	7,966	121,675	...	2,553	3
21,783	58,776	25,697	7,549	4,101	...	6,090	89,935	2,850	2,591	4
2,830	8,168	527	370	2,145	172	961	9,689	...	1,209	5
1,838	4,947	267	192	853	...	795	6,630	207	911	6
1,015	2,923	227	168	3,826	115	612	7,472	...	95	7
683	1,931	157	143	322	...	290	4,189	133	288	8
378	1,440	141	62	324	29	230	3,606	...	52	9
207	747	57	58	258	...	170	2,487	82	36	10
11,827	34,041	9,190	5,676	4,720	689	3,472	56,068	...	717	11
10,604	28,529	18,977	3,490	1,814	...	2,778	43,662	1,609	873	12
3,636	9,259	3,201	1,057	316	143	565	10,566	...	81	13
3,206	7,947	935	699	145	...	592	9,979	360	98	14
7,444	20,458	4,971	3,819	2,188	401	2,126	34,274	...	399	15
5,245	14,675	5,304	2,967	709	...	1,465	22,988	459	385	16
56,684	184,462	1,424,308	145,030	41,043	7,081	32,727	380,732	...	6,662	17
47,481	141,780	1,086,884	84,636	20,098	...	24,319	238,338	9,333	6,855	18
15,378	66,290	295,787	32,413	14,387	2,293	15,321	154,746	...	1,678	19
12,292	39,024	156,208	16,051	5,549	...	11,572	100,407	1,050	1,890	20
18,491	49,329	16,468	11,924	8,488	975	4,889	66,684	...	1,330	21
15,484	40,526	7,871	5,032	2,841	...	3,361	43,823	742	1,368	22
22,815	68,843	1,112,053	100,693	18,168	3,813	12,517	159,302	...	3,654	23
19,705	62,230	922,805	63,553	11,705	...	9,386	94,108	7,541	3,597	24
45,967	160,742	1,711,072	278,124	48,410	9,546	40,089	473,740	...	14,135	25
50,232	156,613	1,396,334	124,635	22,503	...	26,301	287,453	15,874	11,024	26
11,421	43,957	880,995	137,131	13,829	3,440	13,293	147,813	...	4,475	27
15,018	50,491	611,521	51,066	8,027	...	8,982	90,458	3,614	3,467	28
11,880	35,961	461,577	51,944	10,995	1,806	5,574	64,326	...	2,506	29
10,330	28,695	329,830	23,395	4,086	...	3,435	36,650	2,644	1,882	30
10,731	36,232	203,747	47,394	6,393	1,892	9,159	107,247	...	2,017	31
12,774	37,737	297,938	23,990	3,765	...	5,668	65,261	918	2,061	32
8,647	32,837	153,893	34,985	11,321	1,777	8,969	112,356	...	3,761	33
9,405	30,563	152,179	23,646	3,892	...	6,114	69,365	8,136	2,585	34
3,288	11,755	10,860	6,670	5,872	631	3,094	41,998	...	1,376	35
2,705	9,127	4,866	2,538	2,733	...	2,102	25,719	562	1,029	36
5,196	16,805	250,120	50,070	12,394	1,119	7,227	92,444	...	1,920	37
5,362	15,344	141,431	21,494	3,863	...	4,400	51,141	1,146	1,548	38
2,069	6,803	70,546	10,343	1,685	287	1,426	20,997	...	524	39
1,762	5,651	47,247	4,022	1,243	...	1,013	12,038	604	412	40
704	2,453	32,591	8,547	1,406	258	1,463	18,255	...	533	41
532	1,717	12,896	2,865	814	...	955	10,574	30	457	42
1,624	5,302	63,972	15,709	3,195	287	2,374	32,487	...	494	43
2,013	5,213	27,577	6,648	847	...	1,438	17,128	296	335	44
22	98	372	122	81	...	24	585	...	7	45
20	83	174	55	66	...	22	466	(5)	7	46
99	199	3,254	643	86	...	58	1,188	...	1	47
65	192	1,111	240	94	...	40	672	...	15	48
208	707	17,999	4,375	5,480	115	466	5,271	...	21	49
304	934	7,279	1,538	460	...	288	3,261	8	23	50
470	1,243	61,386	10,331	461	172	1,416	13,661	...	340	51
666	1,554	45,147	6,126	339	...	644	7,002	206	299	52
24,659	67,543	461,609	63,347	20,310	2,952	19,346	185,916	...	10,661	53
16,344	43,030	332,771	27,032	13,822	...	11,357	102,152	2,323	7,448	54
2,411	5,531	278	212	349	57	341	4,437	...	83	55
1,807	5,215	201	101	134	...	265	2,906	181	138	56
5,076	13,433	337,025	20,822	4,189	688	2,031	25,822	...	1,249	57
5,738	14,176	160,801	4,773	1,086	...	1,702	17,648	81	686	58
135	458	188	249	109	...	89	1,225	...	...	59
191	520	228	145	101	...	52	622	...	2	60
1,363	4,895	10,185	3,665	2,691	401	2,082	22,368	...	1,787	61
728	2,295	845	508	1,932	...	1,120	11,424	154	1,529	62
1,054	3,142	58,586	25,048	2,226	545	3,149	23,759	...	2,607	63
1,024	3,104	156,968	18,544	2,277	...	1,544	11,925	146	2,685	64
1,663	8,363	3,279	2,108	3,524	430	4,145	39,252	...	1,350	65
676	2,332	375	274	2,502	...	2,913	23,148	522	681	66
2,743	7,337	2,920	967	1,791	315	3,625	27,837	...	1,633	67
1,167	3,015	108	89	1,308	...	1,786	13,644	608	784	68
2,700	7,223	36,026	8,106	2,296	287	2,690	26,836	...	858	69
2,238	5,844	9,259	1,909	2,812	...	1,593	15,109	78	513	70
7,514	17,161	13,122	2,170	3,135	229	1,194	14,380	...	1,094	71
2,775	6,529	3,986	689	1,670	...	382	5,726	553	430	72

Table 3.—FUELS AND ELECTRIC ENERGY USED IN THE MANUFACTURING

Division and State	Total cost of fuels and pur- chased electric energy (\$1,000)	Bituminous coal and anthracite		Coke	
		Quantity (1,000 tons)	Cost (\$1,000)	Quantity (1,000 tons)	Cost (\$1,000)
1 East South Central.....1954..	363,347	5,075	28,320	4,065	60,643
2	191,960	6,061	34,283	6,263	64,420
3 Kentucky.....1954..	108,597	1,650	7,254	514	6,642
4	31,717	1,544	8,247	698	6,691
5 Tennessee.....1954..	117,449	2,453	14,633	127	3,772
6	47,321	3,055	17,015	413	4,719
7 Alabama.....1954..	119,191	946	6,169	3,424	50,212
8	103,441	1,382	8,505	5,151	52,990
9 Mississippi.....1954..	18,110	26	264	(⁵)	17
10	9,481	80	516	1	20
11 West South Central.....1954..	273,904	583	5,289	465	8,795
12	111,601	342	1,934	329	4,533
13 Arkansas.....1954..	25,430	19	142	2	63
14	10,894	63	392	1	13
15 Louisiana.....1954..	61,567	5	55	3	109
16	27,486	33	183	51	746
17 Oklahoma.....1954..	29,261	149	1,061	28	384
18	12,402	166	760	25	241
19 Texas.....1954..	157,646	410	4,031	432	8,239
20	60,819	80	599	252	3,533
21 Mountain.....1954..	123,946	1,281	9,353	1,828	38,074
22	68,144	1,764	9,647	1,999	22,979
23 Montana.....1954..	11,937	141	960	56	1,774
24	8,749	231	1,118	80	976
25 Idaho.....1954..	14,468	282	2,636	36	748
26	6,357	285	2,128	40	560
27 Wyoming.....1954..	2,959	71	401	(⁵)	(⁶)
28	2,078	90	369	(⁵)	5
29 Colorado.....1954..	36,227	364	2,230	679	12,495
30	21,305	722	3,542	845	9,585
31 New Mexico.....1954..	3,055	(⁵)	7	..	10
32	1,475	7	37	(⁵)	(⁶)
33 Arizona.....1954..	9,547	(⁵)	30	...	...
34	5,683	17	158	6	78
35 Utah.....1954..	39,365	294	1,835	1,041	22,703
36	20,005	369	1,962	1,019	11,641
37 Nevada.....1954..	6,388	129	1,254	16	340
38	2,492	43	333	8	131
39 Pacific.....1954..	333,378	1,236	10,807	1,464	19,228
40	175,412	586	4,924	561	9,404
41 Washington.....1954..	72,449	988	8,645	17	508
42	39,013	459	3,812	23	403
43 Oregon.....1954..	38,085	146	1,715	6	309
44	19,010	108	959	28	435
45 California.....1954..	222,844	102	447	1,441	18,411
46	117,389	19	153	510	8,566

* Revised. Revision made too late to be included in Volume II (Industry Statistics) and Volume III (Area Statistics).

¹Includes fuels and electric energy purchased by manufacturing establishments and used for heat and power.

²Includes distillate and residual oil.

³Includes natural manufactured and mixed gas.

⁴The sum of the detail fuels and electric energy cost do not add to the "all industries" total because detailed fuel figures are not available for Major Groups 23, Apparel and Related Products, and 27, Printing and Publishing Industries. The principal fuels included in this column are gasoline, liquefied petroleum gas, and wood.

FUELS AND ELECTRIC ENERGY CONSUMED

208-25

INDUSTRIES, BY DIVISIONS AND STATES: 1954 and 1947—Continued

Fuel oil ²		Gas ³		Other fuels ⁴	Fuels, not specified by kind	Electric energy			Generated less sold	
Quantity (1,000 barrels)	Cost (\$1,000)	Quantity (million cu. ft.)	Cost (\$1,000)			Purchased		Sold (\$1,000)		
						Quantity (million kwh)	Cost (\$1,000)			
2,757	9,270	249,844	50,695	8,044	2,122	37,339	204,253	...	3,610	1
3,234	10,975	111,915	16,907	8,409	...	10,514	56,966	4,204	1,422	2
514	1,879	24,750	7,040	1,427	631	15,812	83,724	...	36	3
1,009	3,147	10,636	3,378	876	...	1,011	9,378	72	132	4
455	1,882	67,456	16,310	1,641	688	15,981	78,523	...	2,285	5
534	2,016	9,318	1,978	897	...	5,030	20,696	151	577	6
1,660	5,045	112,337	19,806	3,685	688	4,783	33,586	...	757	7
1,439	5,015	74,690	9,021	4,902	...	4,078	23,008	3,901	506	8
108	464	45,301	7,539	1,291	115	763	8,420	...	532	9
252	797	17,271	2,530	1,734	...	395	3,884	80	207	10
1,278	3,780	1,266,186	152,467	8,586	1,576	13,371	93,411	...	17,987	11
2,197	5,910	593,771	49,711	7,539	...	4,988	41,974	2,982	4,765	12
302	765	81,139	11,034	917	143	2,556	12,366	...	1,259	13
330	1,016	46,056	3,766	1,592	...	406	4,115	95	866	14
166	678	316,527	39,012	2,582	344	1,901	18,787	...	5,796	15
587	1,575	128,381	11,497	2,536	...	1,726	10,949	1,327	1,096	16
76	166	117,603	16,383	785	172	1,232	10,310	...	199	17
176	412	56,280	5,896	346	...	485	4,747	96	146	18
734	2,171	750,917	86,038	4,302	917	7,682	51,948	...	10,733	19
1,104	2,907	363,054	28,552	3,065	...	2,371	22,163	1,464	2,657	20
3,192	13,653	236,473	24,064	5,689	775	5,153	32,338	...	992	21
2,284	6,307	121,021	10,888	3,108	...	2,279	15,215	1,283	701	22
126	529	14,682	2,761	559	57	1,274	5,297	...	133	23
100	296	10,435	1,430	448	...	1,004	4,481	39	28	24
734	2,946	(?)	(?)	1,324	26	1,315	6,728	...	93	25
422	1,354	(?)	(?)	590	...	310	1,724	32	47	26
325	484	7,548	939	107	29	167	995	...	19	27
68	178	6,991	790	70	...	61	666	9	20	28
581	5,588	95,129	7,811	904	261	755	6,998	...	309	29
690	1,794	22,122	3,052	337	...	253	2,995	162	277	30
20	92	5,820	1,164	236	29	114	1,517	...	3	31
47	124	4,612	662	192	...	26	457	...	35	32
58	195	19,546	*4,143	832	115	396	4,232	...	103	33
441	1,281	8,886	1,871	315	...	246	1,980	558	66	34
930	2,286	92,848	6,940	1,548	229	536	3,824	...	304	35
220	499	67,963	3,071	1,124	...	150	1,708	483	216	36
418	1,533	900	306	179	29	596	2,747	...	28	37
296	781	12	11	32	...	229	1,204	...	12	38
18,698	45,676	296,986	72,319	42,558	1,949	23,809	140,841	...	2,119	39
18,030	36,210	195,129	40,317	13,014	...	12,574	71,543	820	1,771	40
7,925	19,066	621	535	6,978	430	12,323	36,287	...	874	41
5,249	10,504	505	345	5,329	...	5,422	18,620	274	787	42
3,191	8,926	21,172	1,505	8,865	229	3,486	16,536	...	450	43
1,978	4,685	737	415	3,251	...	2,198	9,265	415	300	44
7,582	17,684	275,193	70,279	26,715	1,290	8,000	88,018	...	795	45
10,803	21,021	193,887	39,557	4,434	...	4,954	43,658	131	684	46

⁵Less than 500 tons.⁶Less than \$5,000.⁷Less than 500 thousand cubic feet.

Chapter IX.—Industrial Water Use

Manufacturing industries are important users of water in the United States. The recent widespread recognition of the problems arising in connection with this vital national resource has resulted in numerous requests for detailed information on water utilization. Information on industrial water use was first collected and published by the Bureau of the Census in the 1953 Annual Survey of Manufactures. In the 1954 Census of Manufactures, the Bureau of the Census collected information on water use from all manufacturing establishments employing six or more people, except establishments in the printing and publishing and apparel industries. The latter establishments are relatively small users and/or operate primarily in rented quarters where water is generally furnished by the landlord. The results of this inquiry are contained in the following tables of this chapter.

Two types of inquiries were used in the 1954 Census of Manufactures. The standard Census forms, submitted by all establishments employing over five people, contained three check type questions on quantity of water used, kind of water (fresh or brackish) and source of fresh water. All establishments reporting the use of 20 million gallons or more of water per year received a supplementary water schedule. This supplementary form contained questions on actual gallonage of water use, purpose of water use, water treatment if any, kind of water, and source of fresh water, i.e., whether purchased or obtained from company systems. If fresh water was obtained from a company owned system, the respondents also indicated the amount of surface or ground water utilized.

Slightly over 10,000 manufacturing establishments used 20 million gallons or more of water per establishment in 1954. These establishments accounted for about 97 percent of the water withdrawn for manufacturing purposes in 1954.

The total industrial water intake for establishments reporting less than 20 million gallons was estimated at 320 billion gallons.

While the quantity of water withdrawn by manufacturing establishments is relatively large, the quantity actual consumed in process, by evaporation, etc., is only about one-tenth of the withdrawals. Data on consumption of water as defined above can be calculated in Tables 4, 5, and 6 by subtracting water discharged from water intake. Water recirculation data in the following tables are shown as the quantity of water which would have been required had there been no recirculation or reuse of the water.

In the tables that follow, data are shown by 4-digit industry and by water use region (see map, page 209-2). In addition, the water use region tables include data for selected counties and industries where such counties and industries utilized significant quantities of water in 1954.

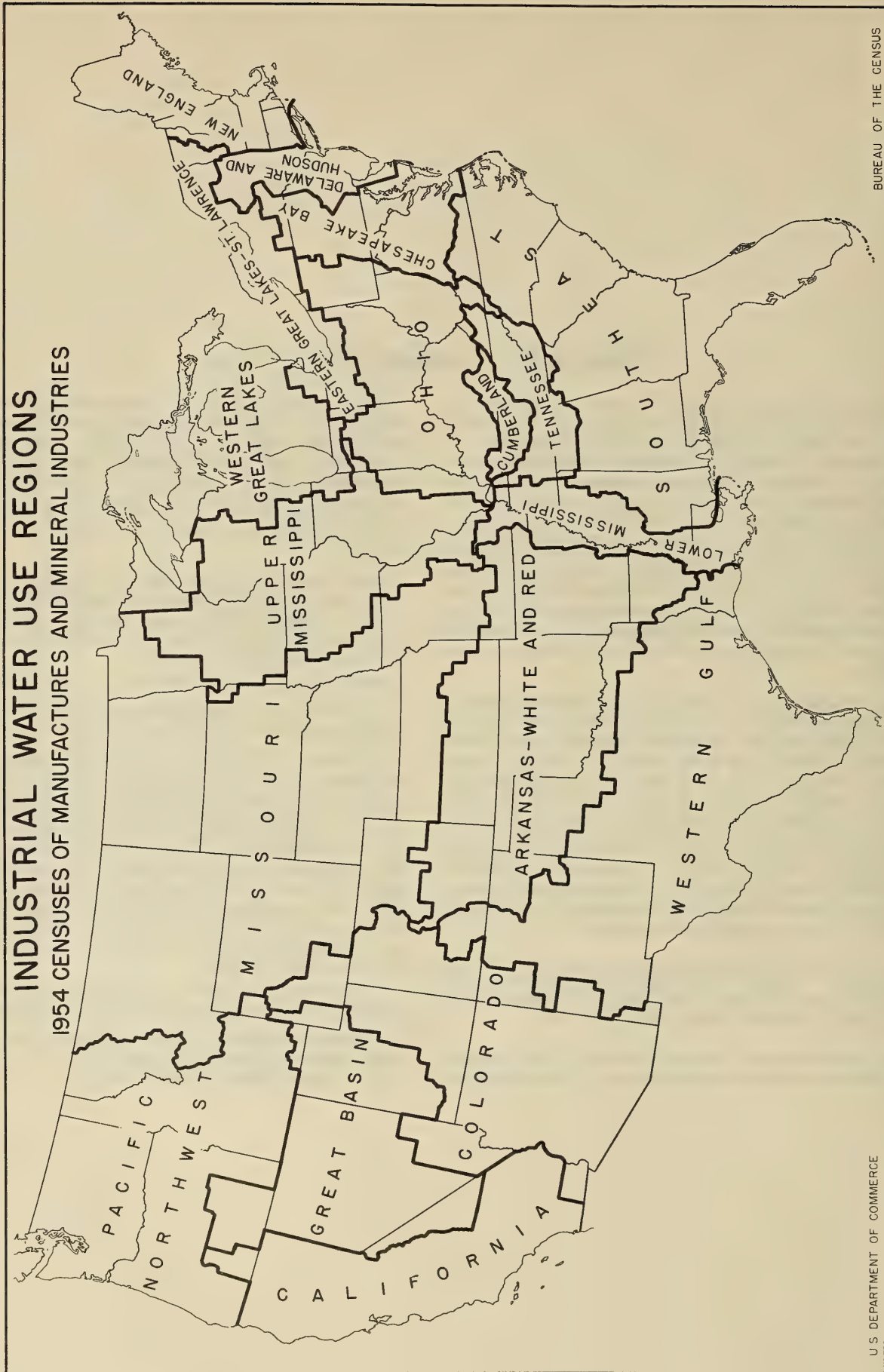
Three types of data are shown in the following tables:

(1) Tables 1, 2, and 3 show the number of establishments reporting water use by size class of annual water use.

(2) Tables 4, 5, and 6 show detailed data on water use for establishments withdrawing 20 million gallons or more of water per year. Items covered in the latter tables include the number of establishments, number of gallons withdrawn, discharged, etc., as well as gallonage data on source of water and type of water used. Cut-off limits in Tables 4, 5, and 6 were established for the publication of county and industry detail within a water use region. Counties are shown only when industrial use of water was 5 billion gallons or more in 1954. Major industry groups and individual (4-digit) industries are shown within a water use region when the industry group or industry used 10 billion gallons or more in 1954.

(3) Table 7 shows the total industrial water intake, including an estimate for establishments using less than 20 million gallons.

The data in the tables on water use exclude government owned establishments operated by private contractors under contracts with the Atomic Energy Commission.



INDUSTRIAL WATER USE

209-3

Table 1.—INDUSTRIAL WATER USE, BY MAJOR INDUSTRY GROUPS AND INDUSTRIES: 1954

Code	Industry group, and industry	All estab- lish- ments, number	Number of establishments reporting water intake				
			Total	With a gross intake of—			
				Less than one million gallons	1-10 million gallons	10-20 million gallons	20 million gallons and over
	All industries.....	286,817	159,264	121,162	22,224	5,652	10,226
20	Food and kindred products.....	42,374	25,052	12,316	7,886	2,236	2,614
2011	Meat packing plants.....	2,367	1,513	573	478	173	289
2013	Prepared meats.....	1,316	746	415	218	54	59
2015	Poultry dressing plants.....	1,309	704	347	212	78	67
2021	Creamery butter.....	1,262	891	341	339	121	90
2022	Natural cheese.....	1,419	690	303	274	61	52
2023	Concentrated milk.....	359	319	65	63	42	149
2024	Ice cream and ices.....	1,587	965	449	364	83	69
2025	Special dairy products.....	187	121	54	34	15	18
2026	Fluid milk.....	1,695	355	171	133	34	17
2027	Fluid milk and other products.....	4,994	3,028	950	1,208	482	388
2031	Canned seafood.....	239	183	89	61	16	17
2032	Cured fish.....	90	55	45	7	2	1
2033	Canned fruits and vegetables.....	1,758	1,343	505	409	154	275
2034	Dehydrated fruits and vegetables.....	148	97	48	28	11	10
2035	Pickles and sauces.....	717	403	225	116	33	29
2036	Packaged seafood.....	295	226	141	62	11	12
2037	Frozen fruits and vegetables.....	266	216	89	35	20	72
2041	Flour and meal.....	803	441	291	96	26	28
2042	Prepared animal feeds.....	2,292	1,468	1,236	172	37	23
2043	Cereal breakfast foods.....	46	33	16	9	2	6
2044	Rice milling.....	80	71	44	20	3	4
2045	Flour mixes.....	131	71	59	7	...	5
2051	Bread and related products.....	6,103	3,104	2,021	840	158	85
2052	Biscuit and crackers.....	311	233	146	52	17	18
2061	Raw cane sugar.....	49	47	10	6	...	31
2062	Cane-sugar refining.....	23	23	1	3	...	19
2063	Beet sugar.....	65	66	6	1	...	59
2071	Confectionery products.....	1,434	791	576	134	41	40
2072	Chocolate and cocoa products.....	28	29	6	8	7	8
2073	Chewing gum.....	28	24	15	4	2	3
2081	Bottled soft drinks.....	4,643	2,976	1,196	1,454	234	92
2082	Beer and ale.....	301	293	34	53	34	172
2083	Malt.....	45	45	7	4	7	27
2084	Wines and brandy.....	262	147	79	39	19	10
2085	Distilled liquor.....	133	118	42	23	7	46
2091	Leavening compounds.....	43	34	15	2	1	16
2092	Shortening and cooking oils.....	102	74	17	11	4	42
2093	Margarine.....	33	32	11	10	3	8
2094	Corn wet milling.....	58	40	7	8	7	18
2095	Flavorings.....	558	245	166	47	18	14
2097	Manufactured ice.....	1,963	1,277	409	550	149	169
2098	Macaroni and spaghetti.....	233	132	89	35	7	1
2099	Food preparations, n.e.c.....	2,599	1,383	1,007	257	63	56
21	Tobacco manufactures.....	627	377	240	87	27	23
2111	Cigarettes.....	19	19	4	...	2	13
2121	Cigars.....	410	191	140	40	10	1
2131	Chewing and smoking tobacco.....	65	42	24	7	6	5
2141	Tobacco stemming and redrying.....	133	125	72	40	9	4
22	Textile mill products.....	8,070	6,385	4,030	1,210	367	778
2211	Scouring and combing plants.....	74	59	24	12	5	18
2212	Yarn mills, wool, except carpet.....	171	151	96	42	5	8
2213	Woolen and worsted fabrics.....	343	296	103	78	31	84
2216	Finishing wool textiles.....	56	49	14	8	9	18
2222	Yarn throwing mills.....	137	115	62	37	12	4
2223	Thread mills.....	97	69	43	9	5	12
2224	Yarn mills, cotton system.....	357	330	136	125	29	40
2233	Cotton broad-woven fabrics.....	582	500	147	112	72	169
2234	Synthetic broad-woven fabrics.....	478	416	237	89	35	55
2241	Narrow fabric mills.....	513	378	320	43	11	4
2251	Full-fashioned hosiery mills.....	789	601	442	126	14	19
2252	Seamless hosiery mills.....	609	512	331	131	33	17
2253	Knit outerwear mills.....	1,083	869	790	59	11	9
2254	Knit underwear mills.....	149	143	95	27	9	12
2255	Knit glove mills.....	29	24	20	3	1	...
2256	Knit fabric mills.....	340	271	199	28	6	38
2259	Knitting mills, n.e.c.....	46	30	27	3	...	...
2261	Finishing textiles except wool.....	725	534	229	84	36	185
2271	Wool carpets and rugs.....	98	89	50	16	3	20
2273	Carpets and rugs, except wool.....	213	131	88	25	5	13
2274	Hard-surface floor coverings.....	16	16	3	3	4	6
2281	Fur-felt hats and hat bodies.....	91	61	39	12	3	7
2282	Wool-felt hats and hat bodies.....	32	17	13	3	...	1

Table 1.—INDUSTRIAL WATER USE, BY MAJOR INDUSTRY GROUPS AND INDUSTRIES: 1954—Continued

Code	Industry group, and industry	All establishments, number	Number of establishments reporting water intake				
			Total	With a gross intake of—			
				Less than one million gallons	1-10 million gallons	10-20 million gallons	20 million gallons and over
22	Textile mill products—Continued						
2283	Straw hats.....	48	43	40	3	...	...
2284	Hatters' fur.....	30	23	19	4	...	...
2291	Felt goods, n.e.c.....	72	48	29	8	3	8
2292	Lace goods.....	138	93	69	15	4	5
2293	Padding and upholstery filling.....	200	136	109	14	5	8
2294	Processed textile waste.....	203	131	100	23	4	4
2295	Coated fabric, except rubberized.....	106	75	47	15	6	7
2298	Cordage and twine.....	137	102	59	37	2	4
2299	Textile goods, n.e.c.....	108	73	50	16	4	3
23	Apparel and related products.....	31,372	24,092	23,977	77	26	12
2311	Men's and boys' suits and coats.....	1,310	1,220	1,219	...	...	1
2312	Suit and coat findings.....	116	103	103	...	...	...
2321	Men's dress shirts and nightwear.....	971	918	913	4	1	...
2322	Men's and boys' underwear.....	82	82	81	...	...	1
2323	Men's and boys' neckwear.....	403	370	369	1	...	...
2325	Men's and boys' cloth hats.....	415	248	241	6	1	...
2326	Hat and cap materials.....	63	36	35	1	...	...
2327	Separate trousers.....	798	763	762	1	...	...
2328	Work shirts.....	52	50	50	...	...	...
2329	Men's and boys' clothing, n.e.c.....	1,117	1,036	1,035	1	...	...
2331	Blouses.....	1,245	1,161	1,157	...	2	2
2333	Dresses, unit price.....	4,114	3,814	3,802	3	7	2
2334	Dresses, dozen price.....	892	824	821	3	...	...
2337	Women's suits, coats, and skirts.....	3,204	2,978	2,977	...	1	...
2338	Women's neckwear and scarfs.....	133	118	118	...	...	...
2339	Women's outerwear, n.e.c.....	710	632	630	1	1	...
2341	Women's and children's underwear.....	1,352	1,271	1,266	2	3	...
2342	Corsets and allied garments.....	491	472	468	2	1	1
2351	Millinery.....	871	519	499	17	2	1
2361	Children's dresses.....	764	712	712	...	...	...
2363	Children's coats.....	407	395	395	...	...	...
2369	Children's outerwear, n.e.c.....	812	737	735	2	...	...
2371	Fur goods.....	1,972	555	551	4	...	...
2381	Fabric dress gloves.....	110	72	66	5	...	1
2382	Fabric work gloves.....	130	113	104	8	1	...
2383	Suspenders and garters.....	47	41	41	...	...	...
2384	Robes and dressing gowns.....	328	308	306	2	...	...
2385	Waterproof outer garments.....	294	267	266	...	1	...
2386	Leather and sheep-lined clothing.....	153	143	143	...	...	...
2387	Belts.....	503	454	450	1	3	...
2388	Handkerchiefs.....	100	97	97	...	...	...
2389	Apparel, n.e.c.....	139	124	124	...	...	...
2391	Curtains and draperies.....	716	314	314	...	...	...
2392	Housefurnishings, n.e.c.....	1,213	635	630	2	1	2
2393	Textile bags.....	268	186	185	...	...	1
2394	Canvas products.....	1,119	414	413	...	1	...
2395	Tucking, pleating and stitching.....	491	220	219	1	...	...
2396	Trimmings and art goods.....	836	481	477	4	...	...
2397	Schiffli-machine embroideries.....	601	312	312	...	...	...
2398	Embroideries, except schiffli.....	926	396	394	2	...	...
2399	Textile products, n.e.c.....	1,104	501	497	4	...	...
24	Lumber and wood products.....	41,484	15,772	13,489	1,640	335	308
2411	Logging camps and contractors.....	12,865	2,794	2,669	103	10	12
2421	Sawmills and planing mills.....	19,778	8,264	6,969	893	216	186
2422	Veneer mills.....	261	237	132	85	15	5
2423	Shingle mills.....	175	69	58	9	1	1
2424	Cooperage stock mills.....	205	159	131	28	...	...
2425	Excelsior mills.....	68	44	39	4	1	...
2431	Millwork plants.....	3,348	1,403	1,272	101	13	17
2432	Plywood plants.....	255	241	106	77	19	39
2433	Prefabricated wood products.....	231	164	151	8	3	2
2441	Fruit and vegetable baskets.....	134	98	71	25	2	...
2442	Rattan and willow ware.....	75	36	33	2	...	1
2443	Cigar boxes.....	23	17	15	2	...	...
2444	Wooden boxes.....	1,101	696	578	90	16	12
2445	Cooperage.....	180	136	117	12	5	2
2491	Wood preserving.....	288	225	102	89	17	17
2492	Lasts and related products.....	51	39	35	3	1	...
2493	Mirror and picture frames.....	343	111	100	7	2	2
2499	Wood products, n.e.c.....	2,103	1,039	911	102	14	12
25	Furniture and fixtures.....	10,273	5,069	4,411	508	86	64
2511	Wood furniture, not upholstered.....	2,785	1,449	1,197	191	42	19
2512	Upholstered household furniture.....	1,780	1,025	931	87	6	1
2514	Metal household furniture.....	641	357	295	42	8	12
2515	Mattresses and bedsprings.....	1,195	520	471	41	5	3
2519	Household furniture, n.e.c.....	69	34	32	2	...	...

Table 1.—INDUSTRIAL WATER USE, BY MAJOR INDUSTRY GROUPS AND INDUSTRIES: 1954—Continued

Code	Industry group, and industry	All establishments, number	Number of establishments reporting water intake				
			Total	With a gross intake of—			
				Less than one million gallons	1-10 million gallons	10-20 million gallons	20 million gallons and over
25	Furniture and fixtures—Continued						
2521	Wood office furniture.....	112	85	70	14	...	1
2522	Metal office furniture.....	129	96	66	16	4	10
2531	Public-building furniture.....	292	169	130	30	6	3
2532	Professional furniture.....	102	62	50	9	1	2
2541	Partitions and fixtures.....	1,626	703	644	49	3	7
2561	Window and door screens.....	215	97	85	8	3	1
2562	Window shades.....	196	58	54	2	...	2
2563	Venetian blinds.....	916	313	294	11	6	2
2591	Restaurant furniture.....	163	82	77	2	2	1
2599	Furniture and fixtures, n.e.c.....	52	19	15	4	...	...
26	Pulp, paper and products.....	5,004	4,027	2,498	528	134	867
2611	Pulp mills.....	252	246	11	15	9	211
2612	Paper and paper board mills.....	589	582	29	25	33	495
2613	Building paper and board mills.....	91	90	18	7	9	56
2641	Paper coating and glazing.....	277	196	119	38	11	28
2651	Envelopes.....	196	175	134	38	3	...
2661	Paper bags.....	381	271	216	36	11	8
2671	Paperboard boxes.....	1,704	1,439	1,159	227	30	23
2674	Fiber cans, tubes, drums, etc.....	184	144	120	17	4	3
2691	Die-cut paper and board.....	352	211	188	16	3	4
2693	Wallpaper.....	76	57	37	14	3	3
2694	Pulp goods, pressed and molded.....	29	22	7	7	...	8
2699	Paper and board products, n.e.c.....	873	594	460	88	18	28
27	Printing and publishing.....	32,531	12,876	11,645	980	137	114
2711	Newspapers.....	8,646	3,414	2,969	341	51	53
2721	Periodicals.....	2,045	828	774	42	7	5
2731	Books; publishing and printing.....	814	329	304	21	2	2
2732	Book printing.....	598	249	213	30	4	2
2741	Miscellaneous publishing.....	946	315	294	17	4	...
2751	Commercial printing.....	12,073	4,133	3,856	219	27	31
2761	Lithographing.....	2,924	1,387	1,227	134	12	14
2771	Greeting cards.....	294	149	131	16	2	...
2781	Bookbinding.....	730	390	367	18	5	...
2782	Blankbooks and paper ruling.....	334	143	130	11	1	1
2783	Loose-leaf binders and devices.....	154	78	66	11	...	1
2789	Miscellaneous bookbinding work.....	201	96	94	1	1	...
2791	Typesetting.....	1,081	451	426	18	7	...
2792	Engraving and plate printing.....	567	204	193	8	3	...
2793	Photoengraving.....	891	533	465	60	6	2
2794	Electrotyping and stereotyping.....	233	177	136	33	5	3
28	Chemicals and allied products.....	11,075	6,856	3,925	1,371	398	1,162
2811	Sulfuric acid.....	47	46	3	2	5	36
2812	Alkalies and chlorine.....	29	27	1	...	1	25
2819	Inorganic chemicals, n.e.c.....	442	335	82	79	29	145
2821	Cyclic (coal tar) crudes.....	43	43	9	15	2	17
2822	Intermediates and organic colors.....	107	96	17	22	12	45
2823	Plastics materials.....	206	171	46	35	23	67
2824	Synthetic rubber.....	21	20	2	...	1	17
2825	Synthetic fibers.....	46	46	3	4	1	38
2826	Explosives.....	74	67	19	8	8	32
2829	Organic chemicals, n.e.c.....	275	222	55	36	19	112
2831	Biological products.....	93	59	28	21	4	6
2833	Medicinal chemicals (including botanicals).....	115	76	36	11	3	26
2834	Pharmaceutical preparations.....	1,163	542	408	69	22	43
2841	Soap and glycerin.....	289	148	84	22	11	31
2842	Cleaning and polishing products.....	1,151	464	396	45	7	16
2843	Sulfonated oils and assistants.....	103	63	34	23	3	3
2851	Paints and varnishes.....	1,469	905	654	172	35	44
2852	Inorganic color pigments.....	104	83	27	16	7	33
2853	Whiting and fillers.....	98	51	49	1	...	1
2861	Hardwood distillation.....	34	25	18	1	2	4
2862	Softwood distillation.....	27	22	5	3	1	13
2863	Gum naval stores.....	26	23	11	4	3	5
2865	Tanning and dyeing materials.....	30	18	10	1	2	5
2871	Fertilizers.....	260	241	58	80	34	69
2872	Fertilizers, mixing only.....	580	454	417	29	2	6
2881	Cottonseed oil mills.....	286	280	147	109	10	14
2882	Linseed oil mills.....	12	11	...	4	1	6
2883	Soybean oil mills.....	88	87	17	18	12	40
2884	Vegetable oil mills, n.e.c.....	51	40	22	10	1	7
2886	Grease and tallow.....	500	342	153	92	31	66
2887	Fatty acids.....	15	13	...	2	...	11
2889	Animal oils, n.e.c.....	61	52	17	19	5	11
2891	Printing ink.....	271	190	129	50	7	4
2892	Essential oils.....	37	16	10	3	...	3
2893	Toilet preparations.....	710	299	242	36	10	11
2894	Glue and gelatin.....	230	136	83	26	7	20

MANUFACTURES—SUMMARY STATISTICS

Table 1.—INDUSTRIAL WATER USE, BY MAJOR INDUSTRY GROUPS AND INDUSTRIES: 1954—Continued

Code	Industry group, and industry	All establishments, number	Number of establishments reporting water intake				
			Total	With a gross intake of—			
				Less than one million gallons	1-10 million gallons	10-20 million gallons	20 million gallons and over
28	Chemicals and allied products—Continued						
2895	Carbon black.....	47	48	9	17	3	19
2896	Compressed and liquefied gases.....	428	404	116	185	48	55
2897	Insecticides and fungicides.....	265	167	123	25	8	11
2898	Salt.....	38	30	7	4	...	19
2899	Chemical products, n.e.c.....	1,204	494	378	72	18	26
29	Petroleum and coal products.....	1,381	1,128	438	255	59	376
2911	Petroleum refining.....	409	378	51	56	28	243
2931	Beehive coke ovens.....	40	39	24	13	1	1
2932	Byproduct coke ovens.....	79	80	2	5	2	71
2951	Paving mixtures and blocks.....	326	255	162	75	10	8
2952	Roofing felts and coatings.....	197	159	49	64	9	37
2992	Lubricants, n.e.c.....	283	179	136	28	3	12
2999	Petroleum and coal products, n.e.c.....	47	38	14	14	6	4
30	Rubber products.....	1,406	938	530	173	56	179
3011	Tires and inner tubes.....	49	48	4	5	2	37
3021	Rubber footwear.....	22	20	4	6	5	5
3031	Reclaimed rubber.....	20	18	3	3	2	10
3099	Rubber industries, n.e.c.....	1,315	852	519	159	47	127
31	Leather and leather goods.....	4,845	3,265	2,640	401	90	134
3111	Leather tanning and finishing.....	579	430	186	84	37	123
3121	Industrial leather belting.....	136	79	67	12	...	...
3131	Footwear cut stock.....	563	400	361	32	5	2
3141	Footwear, except rubber.....	1,196	1,008	747	215	41	5
3142	House slippers.....	173	129	115	14	...	...
3151	Leather dress gloves.....	143	98	96	1	1	...
3152	Leather work gloves.....	96	67	65	2	...	...
3161	Luggage.....	497	326	300	22	2	2
3171	Handbags and purses.....	714	418	401	12	3	2
3172	Small leather goods.....	259	126	120	5	1	...
3192	Saddlery, harness, and whips.....	106	40	39	1	...	...
3199	Leather goods, n.e.c.....	383	144	143	1	...	...
32	Stone, clay, and glass products.....	11,162	6,195	4,216	1,254	253	472
3211	Flat glass.....	32	33	4	9	3	17
3221	Glass containers.....	85	83	6	22	8	47
3229	Pressed and blown glass, n.e.c.....	287	181	110	30	7	34
3231	Products of purchased glass.....	859	409	334	48	14	13
3241	Cement, hydraulic.....	162	162	9	15	13	125
3251	Brick and hollow tile.....	610	550	307	204	27	12
3253	Floor and wall tile.....	49	40	17	17	3	3
3254	Sewer pipe.....	66	65	22	28	14	1
3255	Clay refractories.....	177	157	76	65	9	7
3259	Structural clay products, n.e.c.....	151	101	72	26	2	1
3261	Vitreous plumbing fixtures.....	37	36	9	13	4	10
3262	Vitreous-china food utensils.....	34	31	13	8	5	5
3263	Earthenware food utensils.....	47	44	21	12	6	5
3264	Porcelain electrical supplies.....	45	42	18	11	5	8
3265	China decorating for the trade.....	50	16	14	2	...	...
3269	Pottery products, n.e.c.....	654	264	228	30	4	2
3271	Concrete products.....	5,090	2,242	1,803	386	40	13
3272	Gypsum products.....	90	61	13	12	8	28
3274	Lime.....	145	105	46	32	9	18
3275	Mineral wool.....	85	70	26	21	8	15
3281	Cut-stone and stone products.....	977	583	451	102	16	14
3291	Abrasive products.....	312	205	142	40	7	16
3292	Asbestos products.....	110	93	33	14	8	38
3293	Gaskets and asbestos insulations.....	237	147	115	18	5	9
3295	Minerals: ground or treated.....	353	244	162	46	17	19
3297	Nonclay refractories.....	77	67	25	25	9	8
3298	Statuary and art goods.....	220	72	67	4	1	...
3299	Nonmetallic mineral products, n.e.c.....	121	92	73	14	1	4
33	Primary metal industries.....	5,838	4,349	2,417	845	222	865
3311	Blast furnaces.....	85	85	1	6	2	76
3312	Steel works and rolling mills.....	204	204	13	12	3	176
3313	Electrometallurgical products.....	31	30	3	3	3	21
3321	Gray-iron foundries.....	1,414	1,195	794	289	43	69
3322	Malleable-iron foundries.....	81	79	27	20	9	23
3323	Steel foundries.....	239	217	69	62	26	60
3331	Primary copper.....	27	27	...	3	3	21
3332	Primary lead.....	13	13	...	1	...	12
3333	Primary zinc.....	21	20	2	1	1	16
3334	Primary aluminum.....	16	16	...	...	...	16
3339	Primary nonferrous metals, n.e.c.....	27	23	10	4	2	7
3341	Secondary nonferrous metals.....	360	259	161	57	21	20
3351	Copper rolling and drawing.....	89	83	18	6	8	51
3352	Aluminum rolling and drawing.....	94	81	28	13	9	31
3359	Rolling and drawing, n.e.c.....	98	86	46	25	3	12

Table 1.—INDUSTRIAL WATER USE, BY MAJOR INDUSTRY GROUPS AND INDUSTRIES: 1954—Continued

Code	Industry group, and industry	All establish- ments, number	Number of establishments reporting water intake				
			Total	With a gross intake of—			
				Less than one million gallons	1-10 million gallons	10-20 million gallons	20 million gallons and over
33	Primary metal industries—Continued						
3361	Nonferrous foundries.....	1,920	1,117	887	151	26	53
3391	Iron and steel forgings.....	259	218	100	56	15	47
3392	Wire drawing.....	198	166	49	30	14	73
3393	Welded and heavy-riveted pipe.....	88	75	20	18	11	26
3399	Primary metal industries, n.e.c.....	574	355	189	88	23	55
34	Fabricated metal products.....	22,516	12,432	9,865	1,624	396	547
3411	Tin cans and other tinware.....	227	192	89	39	35	29
3421	Cutlery.....	182	114	79	26	3	6
3422	Edge tools.....	247	137	115	16	3	3
3423	Hand tools, n.e.c.....	503	271	196	50	15	10
3424	Files.....	30	15	10	1	4	...
3425	Hand saws and saw blades.....	99	57	45	8	1	3
3429	Hardware, n.e.c.....	869	527	371	90	16	50
3431	Plumbing fixtures and fittings.....	321	175	105	33	8	29
3439	Heating and cooking equipment, n.e.c.....	899	593	408	111	23	51
3441	Structural and ornamental work.....	2,917	1,526	1,321	160	19	26
3442	Metal doors, sash, and trim.....	1,106	625	555	44	16	10
3443	Boiler shop products.....	977	696	537	109	27	23
3444	Sheet-metal work.....	2,421	1,179	1,094	69	6	10
3461	Vitreous-enameled products.....	51	45	26	9	2	8
3463	Metal stampings.....	2,269	1,470	1,146	205	37	82
3465	Enameling and lacquering.....	380	189	160	25	4	...
3466	Galvanizing.....	133	75	55	16	3	1
3467	Engraving on metal.....	269	79	70	6	1	2
3468	Plating and polishing.....	2,451	1,157	752	257	82	66
3471	Lighting fixtures.....	1,228	677	595	50	13	19
3481	Nails and spikes.....	77	55	44	8	1	2
3489	Wirework, n.e.c.....	1,275	744	604	92	15	33
3491	Metal barrels, drums, and pails.....	93	84	45	17	13	9
3492	Safes and vaults.....	26	15	11	1	...	3
3493	Steel springs.....	101	69	43	11	4	11
3494	Bolts, nuts, washers, and rivets.....	457	329	201	67	24	37
3495	Screw machine products.....	1,795	904	833	62	5	4
3496	Collapsible tubes.....	21	19	9	3	1	6
3497	Metal foil.....	66	50	28	13	3	6
3499	Fabricated metal products, n.e.c.....	1,026	364	318	26	12	8
35	Machinery, except electrical.....	25,601	13,571	11,322	1,457	279	513
3511	Steam engines and turbines.....	22	21	6	7	...	8
3519	Internal combustion engines.....	119	88	37	13	7	31
3521	Tractors.....	154	102	66	9	5	22
3522	Farm machinery (except tractors).....	1,206	665	518	104	13	30
3531	Construction and mining machinery.....	626	446	313	94	11	28
3532	Oil-field machinery and tools.....	345	234	170	44	10	10
3541	Machine tools.....	639	363	263	61	19	20
3542	Metalworking machinery.....	501	319	232	55	14	18
3544	Special dies and tools.....	4,377	2,066	1,953	96	9	8
3545	Metalworking machinery attachments.....	1,022	581	505	55	11	10
3551	Food-products machinery.....	672	410	333	58	7	12
3552	Textile machinery.....	535	345	286	42	9	8
3553	Woodworking machinery.....	249	158	132	17	6	3
3554	Paper-industries machinery.....	169	126	90	25	5	6
3555	Printing-trades machinery.....	358	200	162	31	1	6
3559	Special-industry machinery, n.e.c.....	917	533	451	63	11	8
3561	Pumps and compressors.....	496	338	234	66	15	23
3562	Elevators and escalators.....	131	93	85	5	1	2
3563	Conveyors.....	389	275	224	34	11	6
3564	Blowers and fans.....	214	156	124	19	5	8
3565	Industrial trucks and tractors.....	245	150	121	21	4	4
3566	Power-transmission equipment.....	471	359	261	51	17	30
3567	Industrial furnaces and ovens.....	167	103	83	14	3	3
3568	Mechanical stokers.....	25	21	18	2	...	1
3569	General industrial machinery, n.e.c.....	466	277	221	45	6	5
3571	Computing and related machines.....	84	62	37	11	...	14
3572	Typewriters.....	18	15	8	2	2	3
3576	Scales and balances.....	78	47	36	8	3	...
3579	Office and store machines, n.e.c.....	229	114	91	14	3	6
3581	Domestic laundry equipment.....	56	43	17	9	5	12
3582	Laundry and dry-cleaning machinery.....	104	63	53	4	3	3
3583	Sewing machines.....	82	44	37	4	1	2
3584	Vacuum cleaners.....	39	27	20	3	...	4
3585	Refrigeration machinery.....	586	392	257	62	14	59
3586	Measuring and dispensing pumps.....	32	23	12	5	1	5
3589	Service and household machinery, n.e.c.....	238	147	118	21	3	5
3591	Valves and fittings, except plumbing.....	556	424	301	74	12	37
3592	Fabricated pipe and fittings.....	250	191	154	32	3	2
3593	Ball and roller bearings.....	102	96	43	25	5	23
3594	Industrial patterns and molds.....	1,800	657	627	24	4	2
3599	Machine shops.....	6,832	2,797	2,623	128	20	26

Table 1.—INDUSTRIAL WATER USE, BY MAJOR INDUSTRY GROUPS AND INDUSTRIES: 1954—Continued

Code	Industry group, and industry	All establishments, number	Number of establishments reporting water intake				
			Total	With a gross intake of—			
				Less than one million gallons	1-10 million gallons	10-20 million gallons	20 million gallons and over
36	Electrical industrial apparatus.....	5,758	3,762	2,725	534	177	326
3611	Wiring devices and supplies.....	395	288	210	42	12	24
3612	Carbon and graphite products.....	53	41	24	8	1	8
3613	Electrical measuring instruments.....	303	187	163	11	4	9
3614	Motors and generators.....	309	246	154	43	11	38
3615	Transformers.....	164	118	90	14	3	11
3616	Electrical control apparatus.....	452	317	238	40	14	25
3617	Electrical welding apparatus.....	119	83	62	15	2	4
3619	Electrical industrial apparatus, n.e.c.....	235	154	127	15	3	9
3621	Electrical appliances.....	365	206	146	25	10	25
3631	Insulated wire and cable.....	136	98	56	20	8	14
3641	Engine electrical equipment.....	169	124	86	20	5	13
3651	Electric lamps (bulbs).....	66	58	22	16	11	9
3661	Radios and related products.....	1,753	1,131	888	133	51	59
3662	Electronic tubes.....	157	135	57	38	10	30
3663	Phonograph records.....	143	64	46	10	3	5
3664	Telephone and telegraph equipment.....	74	61	36	8	6	11
3669	Communication equipment, n.e.c.....	141	63	51	10	...	2
3691	Storage batteries.....	308	168	101	34	15	18
3692	Primary batteries.....	41	36	12	14	4	6
3693	X-ray and therapeutic apparatus.....	130	60	48	8	1	3
3699	Electrical products, n.e.c.....	245	124	108	10	3	3
37	Transportation equipment.....	5,348	3,268	2,289	361	130	488
3713	Truck and bus bodies.....	564	327	283	30	10	4
3715	Truck trailers.....	130	113	86	16	5	6
3716	Automobile trailers.....	275	178	161	13	1	3
3717	Motor vehicles and parts.....	1,226	824	428	105	37	254
3721	Aircraft.....	72	71	19	6	6	40
3722	Aircraft engines.....	234	203	122	21	12	48
3723	Aircraft propellers.....	16	16	11	...	...	5
3729	Aircraft equipment, n.e.c.....	1,082	697	550	70	24	53
3731	Ship building and repairing.....	355	290	182	53	17	38
3732	Boat building and repairing.....	1,154	392	355	28	7	2
3741	Locomotives and parts.....	29	24	10	4	1	9
3742	Railroad and street cars.....	57	45	17	5	5	18
3751	Motorcycles and bicycles.....	46	33	15	7	3	8
3799	Transportation equipment, n.e.c.....	108	55	50	3	2	...
38	Instruments and related products.....	3,142	1,589	1,261	194	41	93
3811	Scientific instruments.....	370	190	150	27	6	7
3821	Mechanical measuring instruments.....	614	343	262	40	10	31
3831	Optical instruments and lenses.....	205	103	79	17	4	3
3841	Surgical and medical instruments.....	208	98	92	6	...	...
3842	Surgical appliances and supplies.....	652	269	226	26	6	11
3843	Dental equipment and supplies.....	197	98	82	12	2	2
3851	Ophthalmic goods.....	129	238	105	15	3	6
3861	Photographic equipment.....	449	234	170	36	4	24
3871	Watches and clocks.....	145	85	63	12	4	6
3872	Watchcases.....	64	40	32	3	2	3
39	Miscellaneous manufactures.....	17,010	8,261	6,928	839	203	291
3911	Jewelry (precious metal).....	1,327	430	393	30	3	4
3912	Jewelers' findings.....	234	117	105	9	3	...
3913	Lapidary work.....	333	63	62	1	...	...
3914	Silverware and plated ware.....	207	134	93	25	8	8
3931	Pianos.....	27	26	18	7	1	...
3932	Organs.....	31	21	15	6	...	...
3933	Piano and organ parts.....	40	31	23	7	1	...
3939	Musical instruments, n.e.c.....	144	79	68	10	1	...
3941	Games and toys, n.e.c.....	886	496	427	48	8	13
3942	Dolls.....	484	305	291	10	2	2
3943	Children's vehicles.....	60	44	31	9	3	1
3949	Sporting and athletic goods.....	1,031	490	417	54	10	9
3951	Pens and mechanical pencils.....	140	96	78	13	2	3
3952	Lead pencils and crayons.....	60	42	28	8	3	3
3953	Hand stamps and stencils.....	453	183	175	7	1	...
3954	Artists' materials.....	95	39	34	4	...	1
3955	Carbon paper and inked ribbons.....	84	63	47	12	3	1
3961	Costume jewelry.....	1,127	503	467	26	6	4
3962	Artificial flowers.....	471	233	225	5	2	1
3963	Buttons.....	409	223	206	12	4	1
3964	Needles, pins, and fasteners.....	357	219	188	17	4	10
3971	Plastics products, n.e.c.....	2,439	1,337	944	237	67	89
3981	Brooms and brushes.....	698	335	304	20	7	4
3982	Cork products.....	35	20	14	3	2	1
3983	Matches.....	20	20	7	4	3	6
3984	Candles.....	89	49	36	10	1	2

Table 1.—INDUSTRIAL WATER USE, BY MAJOR INDUSTRY GROUPS AND INDUSTRIES: 1954—Continued

Code	Industry group, and industry	All establish- ments, number	Number of establishments reporting water intake				
			Total	With a gross intake of—			
				Less than one million gallons	1-10 million gallons	10-20 million gallons	20 million gallons and over
39	Miscellaneous manufactures—Continued						
3985	Fireworks and pyrotechnics.....	78	41	37	3	...	1
3986	Jewelry and instrument cases.....	166	101	88	9	2	2
3987	Lamp shades.....	325	128	125	1	2	...
3988	Morticians' goods.....	563	369	321	43	3	2
3991	Beauty and barber-shop equipment.....	67	34	28	5	1	...
3992	Furs, dressed and dyed.....	160	72	53	12	4	3
3993	Signs and advertising displays.....	2,620	918	864	44	7	3
3994	Hairwork.....	131	51	50	1	...	...
3995	Umbrellas, parasols, and canes.....	140	82	77	4	1	...
3996	Tobacco pipes.....	43	26	22	4	...	...
3997	Soda-fountain and bar equipment...!	50	29	27	2	...	...
3999	Miscellaneous products, n.e.c.....	893	386	330	34	9	13
19	Ordinance and accessories.....	493	426	210	83	29	104

Table 2.—INDUSTRIAL WATER USE, FOR WATER USE REGIONS AND SELECTED INDUSTRIES: 1954

Code	Water use region, industry group, and industry	Number of establishments reporting water intake				
		Total	With a gross intake of—			
			Less than one million gallons	1-10 million gallons	10-20 million gallons	20 million gallons and over
	United States, total.....	159,264	121,162	22,224	5,652	10,226
	CUMBERLAND REGION.....	648	466	128	28	26
20	Food and kindred products.....	171	85	63	14	9
21	Tobacco manufactures.....	7	4	3	...	...
22	Textile mill products.....	15	9	3	1	2
23	Apparel and related products.....	50	50	...	...	...
24	Lumber and wood products.....	162	140	14	8	...
25	Furniture and fixtures.....	25	22	3	...	...
26	Pulp, paper and products.....	11	8	1	...	2
27	Printing and publishing.....	49	42	5	2	...
28	Chemicals and products.....	24	9	4	2	9
29	Petroleum and coal products.....	3	1	2	...	...
30	Rubber products.....	5	1	3	...	1
31	Leather and leather goods.....	20	8	11	...	1
32	Stone, clay, and glass products.....	24	21	2	...	1
33	Primary metal industries.....	4	4	...	...	...
34	Fabricated metal products.....	24	18	4	1	1
35	Machinery, except electrical.....	19	18	1	...	...
36	Electrical machinery.....	9	7	2	...	...
37	Transportation equipment.....	7	5	2	...	...
38	Instruments and related products.....	2	1	1	...	...
39	Miscellaneous manufactures.....	17	13	4	...	...
	NEW ENGLAND REGION.....	13,176	10,174	1,732	425	845
20	Food and kindred products.....	1,392	759	428	117	88
21	Tobacco manufactures.....	14	13	1	...	...
22	Textile mill products.....	1,138	683	212	66	177
23	Apparel and related products.....	1,487	1,474	11	1	1
24	Lumber and wood products.....	946	862	63	17	4
25	Furniture and fixtures.....	376	346	25	3	2
26	Pulp, paper and products.....	528	302	63	21	142
27	Printing and publishing.....	899	815	67	8	9
28	Chemicals and products.....	393	263	73	15	42
29	Petroleum and coal products.....	33	16	7	1	9
30	Rubber products.....	149	76	24	11	38
31	Leather and leather goods.....	862	690	121	19	32
32	Stone, clay, and glass products.....	270	216	39	2	13
33	Primary metal industries.....	380	245	70	18	47
34	Fabricated metal products.....	1,145	930	138	33	44
35	Machinery, except electrical.....	1,262	1,050	126	24	62
36	Electrical machinery.....	429	308	66	22	33
37	Transportation equipment.....	215	171	14	8	22
38	Instruments and related products.....	196	139	33	6	18
39	Miscellaneous manufactures.....	1,062	816	151	33	62
	Selected Industries					
2213	Woolen and worsted fabrics.....	164	53	49	16	46
2216	Finishing wool textiles.....	15	5	2	3	5
2261	Finishing textiles, except wool.....	112	31	23	9	49
2611	Pulp mills.....	29	...	2	2	25
2612	Paper and paperboard mills.....	127	4	10	11	102
3099	Rubber industries, n.e.c.....	115	75	...	9	31
3351	Copper rolling and drawing.....	29	7	2	3	17
3392	Wire drawing.....	37	9	7	4	17
3722	Aircraft engines.....	39	26	3	2	8
	DELAWARE AND HUDSON REGION.....	40,276	35,593	2,690	707	1,286
20	Food and kindred products.....	2,521	1,436	635	198	252
21	Tobacco manufactures.....	54	42	6	3	3
22	Textile mill products.....	2,456	1,993	249	65	149
23	Apparel and related products.....	15,168	15,112	35	15	6
24	Lumber and wood products.....	639	584	48	5	2
25	Furniture and fixtures.....	1,049	1,003	40	3	3
26	Pulp, paper and products.....	1,051	808	107	20	116
27	Printing and publishing.....	3,075	2,852	175	31	17
28	Chemicals and products.....	1,405	886	224	83	212
29	Petroleum and coal products.....	139	71	35	4	29

Table 2.—INDUSTRIAL WATER USE, FOR WATER USE REGIONS AND SELECTED INDUSTRIES: 1954—Continued

Code	Water use region, industry group, and industry	Number of establishments reporting water intake				
		Total	With a gross intake of—			
			Less than one million gallons	1-10 million gallons	10-20 million gallons	20 million gallons and over
DELAWARE AND HUDSON REGION--Continued						
30	Rubber products.....	160	95	31	8	26
31	Leather and leather goods.....	1,196	1,087	62	17	30
32	Stone, clay, and glass products.....	871	658	114	36	63
33	Primary metal industries.....	593	372	97	27	97
34	Fabricated metal products.....	2,615	2,281	233	49	52
35	Machinery, except electrical.....	2,055	1,815	164	24	52
36	Electrical machinery.....	1,063	839	115	43	66
37	Transportation equipment.....	427	325	44	11	47
38	Instruments and related products.....	531	456	47	11	17
39	Miscellaneous manufactures.....	3,208	2,878	229	54	47
Selected Industries						
2062	Cane-sugar refining.....	6	...	...	...	6
2261	Finishing textiles, except wool.....	295	167	44	17	67
2611	Pulp mills.....	11	...	2	1	8
2612	Paper and paperboard mills.....	101	7	9	5	80
2819	Inorganic chemicals, n.e.c.....	65	17	16	7	25
2822	Intermediates and organic colors.....	40	6	14	5	15
2823	Plastics materials.....	52	15	9	11	17
2825	Synthetic fibers.....	4	...	...	...	4
2829	Organic chemicals, n.e.c.....	61	17	12	6	26
2834	Pharmaceutical preparations.....	180	135	21	8	16
2852	Inorganic color pigments.....	30	10	5	1	14
2896	Compressed and liquefied gases.....	37	13	9	7	8
2911	Petroleum refining.....	22	4	4	1	13
3241	Cement, hydraulic.....	25	2	...	4	19
3311	Blast furnaces.....	7	...	1	...	6
3312	Steel works and rolling mills.....	16	1	1	...	14
3331	Primary copper.....	6	...	...	...	6
3661	Radios and related products.....	352	295	31	13	13
CHESAPEAKE BAY REGION.....		7,053	5,071	1,171	319	492
20	Food and kindred products.....	1,546	793	452	153	148
21	Tobacco manufactures.....	89	56	20	7	6
22	Textile mill products.....	323	185	84	25	29
23	Apparel and related products.....	1,097	1,091	5	...	1
24	Lumber and wood products.....	844	764	70	9	1
25	Furniture and fixtures.....	212	161	40	7	4
26	Pulp, paper and products.....	193	104	36	3	50
27	Printing and publishing.....	521	447	61	8	5
28	Chemicals and products.....	309	177	47	20	65
29	Petroleum and coal products.....	40	19	9	3	9
30	Rubber products.....	33	13	11	3	6
31	Leather and leather goods.....	185	120	42	7	16
32	Stone, clay, and glass products.....	327	205	80	17	25
33	Primary metal industries.....	151	84	27	7	33
34	Fabricated metal products.....	361	269	58	16	18
35	Machinery, except electrical.....	365	272	61	15	17
36	Electrical machinery.....	112	67	23	5	17
37	Transportation equipment.....	115	79	12	5	19
38	Instruments and related products.....	35	21	5	2	7
39	Miscellaneous manufactures.....	195	144	28	7	16
Selected Industries						
2611	Pulp mills.....	14	...	...	...	14
2612	Paper and paperboard mills.....	33	...	1	1	31
2819	Inorganic chemicals, n.e.c.....	13	7	1	1	4
2825	Synthetic fibers.....	10	1	1	1	7
2829	Organic chemicals, n.e.c.....	9	...	1	1	7
2911	Petroleum refining.....	4	...	...	1	3
3311	Blast furnaces.....	3	...	...	...	3
3312	Steel works and rolling mills.....	14	1	1	...	13
EASTERN GREAT LAKES-ST. LAWRENCE REGION.....		11,904	8,470	1,804	522	1,108
20	Food and kindred products.....	1,707	840	505	161	201
21	Tobacco manufactures.....	13	11	1	1	...
22	Textile mill products.....	118	65	23	11	19
23	Apparel and related products.....	440	437	2	1	...

MANUFACTURES--SUMMARY STATISTICS

Table 2.—INDUSTRIAL WATER USE, FOR WATER USE REGIONS AND SELECTED INDUSTRIES: 1954—Continued

Code	Water use region, industry group, and industry	Number of establishments reporting water intake				
		Total	With a gross intake of—			
			Less than one million gallons	1-10 million gallons	10-20 million gallons	20 million gallons and over
EASTERN GREAT LAKES-ST. LAWRENCE REGION--Continued						
24	Lumber and wood products.....	442	396	35	5	6
25	Furniture and fixtures.....	294	242	37	7	8
26	Pulp, paper and products.....	329	176	48	15	90
27	Printing and publishing.....	968	865	82	12	9
28	Chemicals and products.....	530	288	96	32	114
29	Petroleum and coal products.....	122	66	17	4	35
30	Rubber products.....	142	66	29	14	33
31	Leather and leather goods.....	72	59	10	...	3
32	Stone, clay, and glass products.....	538	352	109	27	50
33	Primary metal industries.....	634	323	134	44	133
34	Fabricated metal products.....	1,670	1,258	250	69	93
35	Machinery, except electrical.....	2,410	2,053	223	59	75
36	Electrical machinery.....	338	220	53	16	49
37	Transportation equipment.....	447	239	56	14	138
38	Instruments and related products.....	149	106	20	4	19
39	Miscellaneous manufactures.....	541	408	74	26	33
Selected Industries						
2611	Pulp mills.....	27	5	4	...	18
2612	Paper and paperboard mills.....	68	7	...	2	59
2812	Alkalies and chlorine.....	7	1	...	...	6
2819	Inorganic chemicals, n.e.c.....	29	6	9	2	12
2822	Intermediates and organic colors.....	6	2	1	...	3
2825	Synthetic fibers.....	6	...	3	...	3
2829	Organic chemicals, n.e.c.....	23	3	7	3	10
2896	Compressed and liquefied gases.....	29	5	13	4	7
2911	Petroleum refining.....	20	5	1	1	13
2932	Byproduct coke ovens.....	15	1	...	...	14
3011	Tires and inner tubes.....	10	1	1	1	7
3099	Rubber industries, n.e.c.....	124	63	29	11	21
3311	Blast furnaces.....	14	...	1	...	13
3312	Steel works and rolling mills.....	24	2	2	...	20
3313	Electrometallurgical products.....	4	...	...	...	4
3321	Gray-iron foundries.....	136	80	37	6	13
3443	Boiler shop products.....	79	60	11	5	3
3717	Motor vehicles and parts.....	223	89	27	8	99
3729	Aircraft equipment, n.e.c.....	64	40	8	1	15
OHIO REGION.....		12,276	8,009	2,454	561	1,252
20	Food and kindred products.....	2,332	1,062	826	205	239
21	Tobacco manufactures.....	57	31	14	7	5
22	Textile mill products.....	97	46	33	6	12
23	Apparel and related products.....	510	505	4	...	1
24	Lumber and wood products.....	1,001	859	104	27	11
25	Furniture and fixtures.....	432	327	78	10	17
26	Pulp, paper and products.....	285	158	46	19	62
27	Printing and publishing.....	1,143	1,002	121	8	12
28	Chemicals and products.....	568	287	112	35	134
29	Petroleum and coal products.....	166	68	39	3	56
30	Rubber products.....	102	52	17	6	27
31	Leather and leather goods.....	116	78	20	7	11
32	Stone, clay, and glass products.....	1,037	600	286	54	97
33	Primary metal industries.....	665	285	131	30	219
34	Fabricated metal products.....	1,188	799	233	55	101
35	Machinery, except electrical.....	1,416	1,098	207	27	84
36	Electrical machinery.....	306	171	58	16	61
37	Transportation equipment.....	268	148	37	19	64
38	Instruments and related products.....	103	78	16	4	5
39	Miscellaneous manufactures.....	484	355	72	23	34
Selected Industries						
2612	Paper and paperboard mills.....	50	3	1	5	41
2812	Alkalies and chlorine.....	3	...	...	...	3
2819	Inorganic chemicals, n.e.c.....	28	6	7	3	12
2822	Intermediates and organic colors.....	14	...	1	2	11
2825	Synthetic fibers.....	5	...	...	...	5
2826	Explosives.....	17	7	4	1	5
2829	Organic chemicals, n.e.c.....	20	1	1	2	16

Table 2.—INDUSTRIAL WATER USE, FOR WATER USE REGIONS AND SELECTED INDUSTRIES: 1954—Continued

Code	Water use region, industry group, and industry	Number of establishments reporting water intake				
		Total	With a gross intake of—			
			Less than one million gallons	1-10 million gallons	10-20 million gallons	20 million gallons and over
	Selected Industries--Continued					
	OHIO REGION--Continued					
2911	Petroleum refining.....	31	2	3	...	26
2932	Byproduct coke ovens.....	24	...	...	1	23
3311	Blast furnaces.....	32	...	2	1	29
3312	Steel works and rolling mills.....	87	2	7	...	78
3313	Electrometallurgical products.....	8	1	2	1	4
3585	Refrigeration machinery.....	39	23	4	1	11
	TENNESSEE REGION.....	1,664	1,049	357	90	168
20	Food and kindred products.....	333	142	124	36	31
21	Tobacco manufactures.....	1	1	...	...	...
22	Textile mill products.....	221	110	58	14	39
23	Apparel and related products.....	103	102	1	...	...
24	Lumber and wood products.....	354	299	46	7	2
25	Furniture and fixtures.....	68	52	9	4	3
26	Pulp, paper and products.....	34	13	4	...	17
27	Printing and publishing.....	82	70	9	1	2
28	Chemicals and products.....	77	28	14	6	29
29	Petroleum and coal products.....	8	5	...	1	2
30	Rubber products.....	12	6	4	...	2
31	Leather and leather goods.....	34	18	11	2	3
32	Stone, clay, and glass products.....	104	65	23	4	12
33	Primary metal industries.....	32	11	6	1	14
34	Fabricated metal products.....	75	38	23	7	7
35	Machinery, except electrical.....	51	38	10	...	3
36	Electrical machinery.....	13	9	3	...	1
37	Transportation equipment.....	9	6	2	1	...
38	Instruments and related products.....	2	1	1	...	...
39	Miscellaneous manufactures.....	51	35	9	6	1
	Selected Industries					
2611	Pulp mills.....	8	...	...	...	8
2612	Paper and paperboard mills.....	9	...	...	...	9
2819	Inorganic chemicals, n.e.c.....	9	2	...	1	6
2825	Synthetic fibers.....	6	...	...	...	6
2829	Organic chemicals, n.e.c.....	4	...	...	...	4
	SOUTHEAST REGION.....	13,329	9,441	2,394	625	869
20	Food and kindred products.....	2,307	1,077	803	226	201
21	Tobacco manufactures.....	109	58	37	7	7
22	Textile mill products.....	1,543	643	434	155	311
23	Apparel and related products.....	903	896	3	2	2
24	Lumber and wood products.....	3,993	3,431	431	91	40
25	Furniture and fixtures.....	597	485	85	20	7
26	Pulp, paper and products.....	246	127	30	9	80
27	Printing and publishing.....	647	589	47	8	3
28	Chemicals and products.....	738	428	177	39	94
29	Petroleum and coal products.....	59	25	18	4	12
30	Rubber products.....	41	33	4	...	4
31	Leather and leather goods.....	58	50	6	...	2
32	Stone, clay, and glass products.....	626	437	135	17	37
33	Primary metal industries.....	168	96	27	13	32
34	Fabricated metal products.....	448	380	53	6	9
35	Machinery, except electrical.....	378	316	43	13	6
36	Electrical machinery.....	82	53	16	6	7
37	Transportation equipment.....	153	111	24	7	11
38	Instruments and related products.....	21	19	1	1	...
39	Miscellaneous manufactures.....	212	187	20	1	4
	Selected Industries					
2037	Frozen fruits and vegetables.....	22	4	...	1	17
2233	Cotton broad-woven fabrics.....	330	56	80	59	135
2261	Finishing textiles, except wool.....	66	8	6	4	48
2611	Pulp mills.....	43	2	2	2	37
2612	Paper and paperboard mills.....	34	1	2	1	30
2825	Synthetic fibers.....	9	1	...	...	8
2862	Softwood distillation.....	15	2	2	1	10
2871	Fertilizers.....	91	14	34	16	27
2932	Byproduct coke ovens.....	8	1	...	...	7
3311	Blast furnaces.....	9	...	...	...	9
3312	Steel works and rolling mills.....	9	...	...	...	9

MANUFACTURES—SUMMARY STATISTICS

Table 2.—INDUSTRIAL WATER USE, FOR WATER USE REGIONS AND SELECTED INDUSTRIES: 1954—Continued

Code	Water use region, industry group, and industry	Number of establishments reporting water intake				
		Total	With a gross intake of—			
			Less than one million gallons	1-10 million gallons	10-20 million gallons	20 million gallons and over
	WESTERN GREAT LAKES REGION.....	14,576	10,568	2,221	581	1,206
20	Food and kindred products.....	2,125	1,045	621	192	267
21	Tobacco manufactures.....	9	8	...	...	1
22	Textile mill products.....	135	86	29	7	13
23	Apparel and related products.....	983	978	5	...	...
24	Leather and wood products.....	838	747	71	9	11
25	Furniture and fixtures.....	568	451	91	15	11
26	Pulp, paper and products.....	495	296	76	19	104
27	Printing and publishing.....	1,488	1,310	135	14	29
28	Chemicals and products.....	578	334	115	28	101
29	Petroleum and coal products.....	109	41	22	11	35
30	Rubber products.....	83	50	14	5	14
31	Leather and leather goods.....	219	153	36	6	24
32	Stone, clay, and glass products.....	479	340	85	26	28
33	Primary metal industries.....	640	313	155	38	134
34	Fabricated metal products.....	1,784	1,343	239	72	130
35	Machinery, except electrical.....	1,978	1,557	248	54	119
36	Electrical machinery.....	599	434	80	30	55
37	Transportation equipment.....	414	250	59	25	80
38	Instruments and related products.....	215	164	34	4	13
39	Miscellaneous manufactures.....	837	668	106	26	37
	Selected Industries					
2011	Meat packing plants.....	112	48	30	8	26
2611	Pulp mills.....	22	...	1	1	20
2612	Paper and paperboard mills.....	65	3	1	3	58
2819	Inorganic chemicals, n.e.c.....	24	7	4	1	12
2822	Intermediates and organic colors.....	4	...	...	...	4
2826	Explosives.....	5	1	...	1	3
2829	Organic chemicals, n.e.c.....	15	5	3	1	6
2898	Salt.....	4	...	1	...	3
2911	Petroleum refining.....	30	3	4	3	20
2932	Byproduct coke ovens.....	12	...	3	1	8
3241	Cement, hydraulic.....	7	...	1	...	6
3311	Blast furnaces.....	10	...	...	1	9
3312	Steel works and rolling mills.....	17	1	...	...	16
3661	Radios and related products.....	213	163	20	15	15
3717	Motor vehicles and parts.....	183	96	28	7	52
	UPPER MISSISSIPPI REGION.....	9,311	6,215	1,794	492	810
20	Food and kindred products.....	2,632	1,139	891	275	327
21	Tobacco manufactures.....	10	8	1	...	1
22	Textile mill products.....	91	49	24	7	11
23	Apparel and related products.....	582	574	6	1	1
24	Lumber and wood products.....	544	483	46	8	7
25	Furniture and fixtures.....	239	200	30	6	3
26	Pulp, paper and products.....	256	148	35	7	66
27	Printing and publishing.....	923	836	62	14	11
28	Chemicals and products.....	451	239	96	35	81
29	Petroleum and coal products.....	63	29	18	2	14
30	Rubber products.....	36	21	5	4	6
31	Leather and leather goods.....	191	132	44	12	3
32	Stone, clay, and glass products.....	416	282	81	16	37
33	Primary metal industries.....	295	173	66	10	46
34	Fabricated metal products.....	737	536	122	30	49
35	Machinery, except electrical.....	1,013	774	148	27	64
36	Electrical machinery.....	199	124	43	11	21
37	Transportation equipment.....	154	109	13	9	23
38	Instruments and related products.....	71	51	5	5	10
39	Miscellaneous manufactures.....	408	308	58	13	29
	Selected Industries					
2011	Meat packing plants.....	104	31	20	16	37
2611	Pulp mills.....	26	2	1	...	23
2612	Paper and paperboard products.....	35	2	...	1	32
2911	Petroleum refining.....	12	3	...	...	9
3241	Cement, hydraulic.....	14	2	...	...	12
3312	Steel works and rolling mills.....	7	...	...	...	7
3521	Tractors.....	20	7	2	1	10

Table 2.—INDUSTRIAL WATER USE, FOR WATER USE REGIONS AND SELECTED INDUSTRIES: 1954—Continued

Code	Water use region, industry group, and industry	Number of establishments reporting water intake				
		Total	With a gross intake of—			
			Less than one million gallons	1-10 million gallons	10-20 million gallons	20 million gallons and over
	LOWER MISSISSIPPI REGION.....	2,080	1,326	425	119	210
20	Food and kindred products.....	615	280	192	48	95
21	Tobacco manufactures.....	5	1	2	2	...
22	Textile mill products.....	31	14	11	1	5
23	Apparel and related products.....	136	134	2	...	...
24	Lumber and wood products.....	451	346	80	16	9
25	Furniture and fixtures.....	71	57	10	1	3
26	Pulp, paper and products.....	40	21	5	4	10
27	Printing and publishing.....	123	104	12	4	3
28	Chemicals and products.....	187	85	44	17	41
29	Petroleum and coal products.....	23	4	5	1	13
30	Rubber products.....	7	2	2	...	3
31	Leather and leather goods.....	23	8	6	8	1
32	Stone, clay, and glass products.....	78	55	13	2	8
33	Primary metal industries.....	17	10	4	...	3
34	Fabricated metal products.....	94	74	12	4	4
35	Machinery, except electrical.....	71	55	10	4	2
36	Electrical machinery.....	14	7	5	1	1
37	Transportation equipment.....	53	37	4	5	7
38	Instruments and related products.....	3	2	1	...	...
39	Miscellaneous manufactures.....	38	30	5	1	2
	Selected Industries					
2061	Raw cane sugar.....	41	10	5	...	26
2062	Cane-sugar refining.....	7	1	...	...	6
2611	Pulp mills.....	5	...	...	...	5
2613	Building paper and board mills.....	6	1	...	1	4
2819	Inorganic chemicals, n.e.c.....	11	1	2	...	8
2829	Organic chemicals, n.e.c.....	8	1	1	1	5
2911	Petroleum refining.....	12	2	1	1	8
	MISSOURI REGION.....	4,404	3,096	838	208	262
20	Food and kindred products.....	1,540	757	482	147	154
21	Tobacco manufactures.....	...	...	...	...	...
22	Textile mill products.....	9	6	3	...	...
23	Apparel and related products.....	248	246	1	1	...
24	Lumber and wood products.....	282	257	19	4	2
25	Furniture and fixtures.....	114	107	5	2	...
26	Pulp, paper and products.....	73	50	13	3	7
27	Printing and publishing.....	615	555	51	7	2
28	Chemicals and products.....	223	133	53	11	26
29	Petroleum and coal products.....	52	14	12	3	23
30	Rubber products.....	13	7	3	...	3
31	Leather and leather goods.....	58	36	17	4	1
32	Stone, clay, and glass products.....	218	152	54	4	8
33	Primary metal industries.....	76	44	18	5	9
34	Fabricated metal products.....	250	202	36	6	6
35	Machinery, except electrical.....	276	237	34	...	5
36	Electrical machinery.....	68	51	7	7	3
37	Transportation equipment.....	73	54	8	1	10
38	Instruments and related products.....	27	24	3	...	...
39	Miscellaneous manufactures.....	189	164	19	3	3
	Selected Industries					
2011	Meat packing plants.....	116	40	25	10	41
2013	Prepared meats.....	25	10	5	5	5
2021	Creamery butter.....	217	83	89	31	14
2027	Fluid milk and other products.....	204	65	85	40	14
2063	Beet sugar.....	26	...	...	...	26
2911	Petroleum refining.....	32	2	4	3	23
	ARKANSAS WHITE AND RED REGION.....	4,401	3,021	888	203	289
20	Food and kindred products.....	1,330	655	473	113	89
21	Tobacco manufactures.....	2	1	1	...	...
22	Textile mill products.....	19	10	4	2	3
23	Apparel and related products.....	154	154	...	...	...
24	Lumber and wood products.....	928	773	114	24	17

Table 2.--INDUSTRIAL WATER USE, FOR WATER USE REGIONS AND SELECTED INDUSTRIES: 1954--Continued

Code	Water use region, industry group, and industry	Number of establishments reporting water intake				
		Total	With a gross intake of—			
			Less than one million gallons	1-10 million gallons	10-20 million gallons	20 million gallons and over
	ARKANSAS WHITE AND RED REGION--Continued					
25	Furniture and fixtures.....	124	109	13	1	1
26	Pulp, paper and products.....	62	30	5	5	22
27	Printing and publishing.....	410	379	27	2	2
28	Chemicals and products.....	206	92	60	14	4
29	Petroleum and coal products.....	81	15	11	5	50
30	Rubber products.....	8	5	2	...	1
31	Leather and leather goods.....	37	24	10	3	...
32	Stone, clay, and glass products.....	194	111	52	10	21
33	Primary metal industries.....	84	50	15	4	15
34	Fabricated metal products.....	212	174	29	4	5
35	Machinery, except electrical.....	309	252	42	8	7
36	Electrical machinery.....	26	17	5	2	2
37	Transportation equipment.....	98	70	16	4	8
38	Instruments and related products.....	14	13	1	...	...
39	Miscellaneous manufactures.....	103	87	8	2	6
	Selected Industries					
2011	Meat packing plants.....	99	36	37	14	12
2611	Pulp mills.....	8	...	...	1	7
2612	Paper and paperboard mills.....	10	...	...	...	10
2819	Inorganic chemicals, n.e.c.....	17	4	3	2	8
2895	Carbon black.....	20	6	7	...	7
2911	Petroleum refining.....	60	5	5	4	46
3312	Steel works and rolling mills.....	3	...	...	...	3
	WESTERN GULF REGION.....	4,997	3,494	982	204	317
20	Food and kindred products.....	1,249	597	454	108	90
21	Tobacco manufactures.....	3	2	1	...	...
22	Textile mill products.....	43	21	16	2	4
23	Apparel and related products.....	391	388	...	3	...
24	Lumber and wood products.....	593	499	65	13	16
25	Furniture and fixtures.....	200	179	19	2	...
26	Pulp, paper and products.....	71	46	10	4	11
27	Printing and publishing.....	528	465	54	6	3
28	Chemicals and products.....	377	177	103	22	75
29	Petroleum and coal products.....	91	15	22	3	51
30	Rubber products.....	14	8	4	...	2
31	Leather and leather goods.....	46	44	1	...	1
32	Stone, clay, and glass products.....	259	166	61	9	23
33	Primary metal industries.....	105	59	25	6	15
34	Fabricated metal products.....	303	239	51	8	5
35	Machinery, except electrical.....	387	316	57	9	5
36	Electrical machinery.....	44	33	7	3	1
37	Transportation equipment.....	105	81	11	2	11
38	Instruments and related products.....	35	26	7	2	...
39	Miscellaneous manufactures.....	153	133	14	2	4
	Selected Industries					
2611	Pulp mills.....	5	1	...	1	3
2612	Paper and paperboard.....	6	1	...	1	4
2819	Inorganic chemicals, n.e.c.....	20	3	3	2	12
2829	Organic chemicals, n.e.c.....	14	1	...	...	13
2911	Petroleum refining.....	68	5	13	3	47
3334	Primary aluminum.....	3	...	...	...	3
3721	Aircraft.....	7	2	1	...	4
	COLORADO REGION.....	687	537	97	16	37
20	Food and kindred products.....	185	103	54	14	14
21	Tobacco manufactures.....	...	...	...	...	...
22	Textile mill products.....	...	...	...	...	...
23	Apparel and related products.....	32	31	1	...	...
24	Lumber and wood products.....	135	125	7	...	3
25	Furniture and fixtures.....	17	17	...	...	...
26	Pulp, paper and products.....	2	2	...	...	...
27	Printing and publishing.....	129	122	6	...	1
28	Chemicals and products.....	36	25	6	...	5
29	Petroleum and coal products.....	8	5	3

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Table 2.—INDUSTRIAL WATER USE, FOR WATER USE REGIONS AND SELECTED INDUSTRIES: 1954—Continued

Code	Water use region, industry group, and industry	Number of establishments reporting water intake				
		Total	With a gross intake of—			
			Less than one million gallons	1-10 million gallons	10-20 million gallons	20 million gallons and over
	COLORADO REGION--Continued					
31	Leather and leather goods.....	4	4	...	...	...
32	Stone, clay, and glass products.....	49	31	15	1	2
33	Primary metal industries.....	14	4	1	...	9
34	Fabricated metal products.....	21	18	3	...	...
35	Machinery, except electrical.....	29	27	1	1	...
36	Electrical machinery.....	...	...	...	...	...
37	Transportation equipment.....	7	4	...	...	3
38	Instruments and related products.....	1	1	...	...	...
39	Miscellaneous manufactures.....	17	17	...	...	...
	GREAT BASIN REGION.....	515	330	98	32	56
20	Food and kindred products.....	183	78	63	18	24
21	Tobacco manufactures.....	...	...	...	...	...
22	Textile mill products.....	9	7	2	...	...
23	Apparel and related products.....	27	27	...	...	...
24	Lumber and wood products.....	57	46	7	1	3
25	Furniture and fixtures.....	12	12	...	...	...
26	Pulp, paper and products.....	4	3	1	...	...
27	Printing and publishing.....	56	54	1	1	...
28	Chemicals and products.....	24	9	4	4	7
29	Petroleum and coal products.....	10	3	1	1	5
30	Rubber products.....	3	1	1	...	1
31	Leather and leather goods.....	...	...	...	...	...
32	Stone, clay, and glass products.....	37	23	6	3	5
33	Primary metal industries.....	19	6	3	2	8
34	Fabricated metal products.....	39	34	4	1	...
35	Machinery, except electrical.....	14	11	1	1	1
36	Electrical machinery.....	4	3	1	...	...
37	Transportation equipment.....	5	3	2	...	...
39	Miscellaneous manufactures.....	12	9	1	...	2
	CALIFORNIA REGION.....	12,616	10,300	1,371	353	592
20	Food and kindred products.....	1,866	960	517	141	248
21	Tobacco manufactures.....	4	4	...	...	...
22	Textile mill products.....	119	94	19	5	1
23	Apparel and related products.....	1,645	1,642	1	2	...
24	Lumber and wood products.....	999	805	107	33	54
25	Furniture and fixtures.....	584	561	19	3	1
26	Pulp, paper and products.....	232	170	32	2	28
27	Printing and publishing.....	920	858	49	8	5
28	Chemicals and products.....	600	401	114	23	62
29	Petroleum and coal products.....	106	33	31	13	29
30	Rubber products.....	117	84	18	5	10
31	Leather and leather goods.....	119	107	2	4	6
32	Stone, clay, and glass products.....	521	398	72	20	31
33	Primary metal industries.....	366	270	55	15	26
34	Fabricated metal products.....	1,254	1,084	120	31	19
35	Machinery, except electrical.....	1,330	1,243	66	10	11
36	Electrical machinery.....	419	351	46	13	9
37	Transportation equipment.....	632	526	48	18	40
38	Instruments and related products.....	167	143	19	2	3
39	Miscellaneous manufactures.....	616	566	36	5	9
	Selected Industries					
2033	Canned fruits and vegetables.....	154	44	32	15	63
2421	Sawmills and planing mills.....	452	310	72	30	40
2612	Paper and paperboard.....	13	1	...	...	12
2898	Salt.....	4	...	...	...	4
2911	Petroleum refining.....	54	9	15	8	22

MANUFACTURES—SUMMARY STATISTICS

Table 2.—INDUSTRIAL WATER USE, FOR, WATER USE REGIONS AND SELECTED INDUSTRIES: 1954—Continued

Code	Water use region, industry group, and industry	Number of establishments reporting water intake				
		Total	With a gross intake of—			
			Less than one million gallons	1-10 million gallons	10-20 million gallons	20 million gallons and over
	PACIFIC NORTHWEST REGION.....	5,350	4,002	780	167	401
20	Food and kindred products.....	1,018	508	303	70	137
21	Tobacco manufactures.....	...	...	...	...	...
22	Textile mill products.....	18	9	6	...	3
23	Apparel and related products.....	136	136	...	...	...
24	Lumber and wood products.....	2,564	2,073	313	58	120
25	Furniture and fixtures.....	87	80	4	2	1
26	Pulp, paper and products.....	115	36	16	3	60
27	Printing and publishing.....	300	280	16	3	1
28	Chemicals and products.....	130	64	29	12	25
29	Petroleum and coal products.....	15	8	3	...	4
30	Rubber products.....	12	9	1	...	2
31	Leather and leather goods.....	25	22	2	1	...
32	Stone, clay, and glass products.....	147	104	27	5	11
33	Primary metal industries.....	106	68	11	2	25
34	Fabricated metal products.....	212	188	16	4	4
35	Machinery, except electrical.....	208	190	15	3	...
36	Electrical machinery.....	37	31	4	2	...
37	Transportation equipment.....	86	71	9	1	5
38	Instruments and related products.....	16	15	...	...	1
39	Miscellaneous manufactures.....	118	110	5	1	2
	Selected Industries					
2421	Sawmills and planing mills.....	1,232	901	218	38	75
2611	Pulp mills.....	35	...	3	1	31
2612	Paper and paperboard mills.....	24	...	1	...	23
2812	Alkalies and chlorine.....	3	...	...	...	3
3334	Primary aluminum.....	6	...	...	...	6

Table 3.—INDUSTRIAL WATER USE FOR WATER USE REGIONS AND SELECTED COUNTIES: 1954

Water use region, State, and county	Number of establishments reporting water intake					Water use region, State, and county	Number of establishments reporting water intake				
	Total	With a gross intake of—					Total	With a gross intake of—			
		Less than one million gallons	1-10 million gallons	10-20 million gallons	20 million gallons and over			Less than one million gallons	1-10 million gallons	10-20 million gallons	20 million gallons and over
United States, Total..	159,264	121,162	22,224	5,652	10,226	CHESAPEAKE BAY REGION-- Continued					
CUMBERLAND REGION.....	648	466	128	28	26	Pennsylvania:					
Tennessee:						Blair.....	83	42	26	7	8
Davidson.....	286	199	57	12	18	Clinton.....	37	19	8	2	8
						Dauphin.....	179	124	32	11	12
						Mifflin.....	32	19	6	3	4
NEW ENGLAND REGION.....	13,176	10,174	1,732	425	845	Northumberland.....	111	72	28	4	7
Connecticut:						York.....	437	292	89	22	34
Fairfield.....	883	663	119	36	65	Virginia:					
Hartford.....	658	496	93	23	46	Chesterfield.....	23	16	3	...	4
New Haven.....	830	620	106	29	75	Hopewell.....	11	3	...	...	8
New London.....	172	117	26	8	21	Isle of Wight.....	17	7	5	1	4
						Waynesboro.....	19	9	5	2	3
Maine:						Eastern Great Lakes					
Aroostook.....	71	49	10	5	7	ST. LAWRENCE REGION....	11,904	8,470	1,804	522	1,118
Cumberland.....	185	144	27	7	7	Michigan:					
Kennebec.....	78	55	8	4	11	Monroe.....	54	27	15	...	12
Oxford.....	96	75	15	1	5	Wayne.....	2,474	1,872	297	83	222
Penobscot.....	121	91	14	4	12	New York:					
Washington.....	61	42	11	3	5	Chautauqua.....	201	127	42	15	17
Massachusetts:						Clinton.....	439	15	412	2	10
Berkshire.....	108	56	23	9	20	Erie.....	959	651	165	41	102
Essex.....	790	617	98	20	55	Jefferson.....	75	46	10	1	18
Hampden.....	526	383	80	12	51	Lewis.....	34	22	4	...	8
Middlesex.....	1,233	970	164	36	63	Monroe.....	577	418	85	29	45
Suffolk.....	1,646	1,470	115	25	36	Niagara.....	209	115	36	11	47
Worcester.....	937	700	148	29	60	Onondaga.....	326	221	55	18	32
New Hampshire:						Oswego.....	74	42	13	5	14
Coos.....	51	43	3	1	4	St. Lawrence.....	74	39	16	5	14
Rhode Island:						Ohio:					
Providence.....	1,201	927	169	34	71	Ashtabula.....	87	54	14	7	12
						Cuyahoga.....	2,204	1,652	305	83	164
DELAWARE AND HUDSON, REGION.....	40,276	35,593	2,690	707	1,286	Lake.....	103	81	3	4	15
Delaware:						Lorain.....	140	87	31	6	16
New Castle.....	188	102	37	12	37	Lucas.....	418	299	63	20	36
Sussex.....	122	84	22	6	10	Summit.....	377	275	56	18	28
New Jersey:						Pennsylvania:					
Bergen.....	834	692	79	17	46	Erie.....	283	174	52	17	40
Camden.....	250	168	33	17	32	OHIO REGION.....	12,276	8,009	2,454	561	1,252
Essex.....	1,648	1,331	187	52	78	Kentucky:					
Gloucester.....	80	65	7	1	7	Boyd.....	30	18	5	1	6
Hudson.....	1,452	1,238	93	44	77	Jefferson.....	486	275	100	34	77
Middlesex.....	439	296	67	19	57	Ohio:					
Passaic.....	919	766	83	19	51	Butler.....	134	80	20	3	31
Salem.....	27	16	2	1	8	Hamilton.....	1,224	922	173	45	84
Union.....	674	523	78	26	47	Jefferson.....	46	18	20	2	6
New York:						Lawrence.....	28	15	8	1	4
Kings.....	5,111	4,758	238	59	56	Mahoning.....	196	124	29	11	32
Saratoga.....	73	44	10	2	14	Montgomery.....	498	364	73	22	39
Schenectady.....	78	43	15	2	18	Scioto.....	43	22	15	2	4
Pennsylvania:						Stark.....	272	158	55	15	44
Bucks.....	278	200	46	11	21	Trumbull.....	150	90	26	6	28
Chester.....	187	118	46	10	13	Pennsylvania:					
Delaware.....	239	164	33	8	34	Allegheny.....	1,039	663	205	45	126
Montgomery.....	564	399	100	28	37	Beaver.....	142	68	38	5	31
Northampton.....	315	239	32	14	30	Cambria.....	109	69	30	4	6
Philadelphia.....	3,426	2,856	347	92	131	Mercer.....	76	45	14	3	14
						Westmoreland.....	216	133	40	9	34
CHESAPEAKE BAY REGION....	7,053	5,071	1,171	319	492	West Virginia:					
District of Columbia:						Hancock.....	23	7	8	2	6
Washington.....	207	151	34	11	11	Kanawha.....	79	40	19	4	16
Maryland:						TENNESSEE REGION.....	1,664	1,049	357	90	168
Alleghany.....	41	23	10	2	6	Alabama:					
Baltimore.....	153	57	16	4	76	Colbert.....	29	17	6	1	5
Baltimore City.....	938	692	129	41	22	Morgan.....	41	25	9	2	5
Washington.....	63	29	24	7	3	North Carolina:					
New York:						Buncombe.....	94	61	26	3	4
Broome.....	191	127	35	9	20	Haywood.....	21	14	1	2	4
						Transylvania.....	12	5	2	2	3

Table 3.—INDUSTRIAL WATER USE FOR WATER USE REGIONS AND SELECTED COUNTIES: 1954—Continued

Water use region, State, and county	Number of establishments reporting water intake					Water use region, State, and county	Number of establishments reporting water intake				
	Total	With a gross intake of—					Total	With a gross intake of—			
		Less than one million gallons	1-10 million gallons	10-20 million gallons	20 million gallons and over			Less than one million gallons	1-10 million gallons	10-20 million gallons	20 million gallons and over
TENNESSEE REGION--Con. Tennessee:						UPPER MISSISSIPPI REGION--Continued					
Hamilton.....	224	130	48	13	33	Iowa:					
McMinn.....	42	31	8	...	3	Black Hawk.....	85	54	20	4	7
Maury.....	31	19	5	1	6	Clinton.....	34	17	9	2	6
Sullivan.....	46	19	8	6	13	Lee.....	42	21	9	2	10
Virginia:						Linn.....	110	74	20	3	13
Smyth.....	17	6	7	...	4	Minnesota:					
SOUTHEAST REGION.....	13,329	9,441	2,394	625	869	Carlton.....	16	6	3	...	7
Alabama:						Hennepin.....	861	694	109	20	38
Etowah.....	56	33	12	2	9	Ramsey.....	403	296	60	19	28
Jefferson.....	385	241	69	26	49	Missouri:					
Mobile.....	122	57	27	8	30	St. Louis.....	218	163	36	5	14
Talladega.....	48	28	8	4	8	St. Louis City.....	1,481	1,140	203	55	83
Tuscaloosa.....	63	47	3	5	8	Wisconsin:					
Florida:						Eau Claire.....	47	26	11	2	8
Bay.....	18	9	5	...	4	Marathon.....	101	51	26	8	16
Duval.....	233	157	40	15	21	Oneida.....	21	14	1	3	3
Escambia.....	48	25	11	4	8	Wood.....	65	38	11	3	13
Gulf.....	6	3	...	...	3	LOWER MISSISSIPPI REGION....	2,080	1,326	425	119	210
Hillsborough.....	244	179	44	8	13	Louisiana:					
Nassau.....	17	8	5	1	3	East Baton Rouge.....	80	47	13	3	17
Putnam.....	25	15	7	...	3	Jefferson.....	75	28	18	9	20
Georgia:						Orleans.....	396	265	75	24	32
Bibb.....	104	61	25	6	12	St. Bernard.....	11	4	2	1	4
Chatham.....	93	55	18	8	15	St. John the Baptist....	6	2	1	...	3
Glynn.....	27	16	8	...	3	Mississippi:					
Mississippi:						Adams.....	34	21	7	2	4
Jackson.....	28	15	7	1	5	Tennessee:					
North Carolina:						Shelby.....	399	268	68	25	38
Cleveland.....	51	22	16	8	5	MISSOURI REGION.....	4,404	3,096	838	208	262
South Carolina:						Kansas:					
Charleston.....	102	61	24	5	12	Wyandotte.....	147	90	28	7	22
WESTERN GREAT LAKES REGION.....	14,576	10,568	2,221	581	1,206	Minnesota:					
Illinois:						Koochiching.....	28	23	2	...	3
Cook.....	7,035	5,460	902	227	446	Missouri:					
Lake.....	148	90	33	6	19	Jackson.....	683	568	73	18	24
Will.....	127	83	18	8	18	Montana:					
Indiana:						Yellowstone.....	49	33	7	3	6
Lake.....	215	94	49	17	55	Nebraska:					
St. Joseph.....	174	124	31	10	9	Douglas.....	295	202	57	12	24
Michigan:						Wyoming:					
Berrien.....	163	108	25	11	19	Natrona.....	18	8	7	...	3
Genesee.....	132	95	17	3	17	ARKANSAS, WHITE AND RED REGION.....	4,401	3,021	888	203	289
Kalamazoo.....	169	102	27	11	29	Colorado:					
Manistee.....	27	16	5	...	6	Pueblo.....	58	35	16	1	6
Muskegon.....	118	66	26	5	21	Kansas:					
St. Clair.....	85	58	13	2	12	Sedgwick.....	257	193	40	5	19
Minnesota:						Louisiana:					
St. Louis.....	184	149	18	5	12	Jackson.....	15	11	...	...	4
Wisconsin:						Morehouse.....	18	9	2	2	5
Brown.....	118	72	23	6	17	Quachita.....	60	41	12	3	4
Marinette.....	45	31	4	...	10	Webster.....	28	14	8	2	4
Milwaukee.....	1,249	913	180	42	114	Texas:					
Outagamie.....	99	58	20	3	18	Morris.....	9	5	1	...	3
Winnebago.....	161	96	30	13	22	WESTERN GULF REGION.....	4,997	3,493	982	204	317
UPPER MISSISSIPPI REGION.	9,312	6,215	1,794	492	810	Louisiana:					
Illinois:						Calcasieu.....	59	35	6	6	12
La Salle.....	93	50	20	7	16						
Lee.....	30	16	9	1	4						
Madison.....	115	58	22	9	26						
Peoria.....	140	92	24	7	17						
St. Clair.....	157	98	31	6	22						
Tazewell.....	40	26	4	3	7						
Whiteside.....	49	27	12	3	7						

Table 3.—INDUSTRIAL WATER USE FOR WATER USE REGIONS AND SELECTED COUNTIES: 1954—Continued

Water use region, State, and county	Number of establishments reporting water intake					Water use region, State, and county	Number of establishments reporting water intake				
	Total	With a gross intake of--					Total	With a gross intake of--			
		Less than one million gallons	1-10 million gallons	10-20 million gallons	20 million gallons and over			Less than one million gallons	1-10 million gallons	10-20 million gallons	20 million gallons and over
WESTERN GULF REGION-- Continued						PACIFIC NORTHWEST REGION..	5,350	4,002	780	167	401
Texas:						Idaho:					
Dallas.....	760	564	130	33	33	Nez Perce.....	25	18	2	...	5
Galveston.....	54	29	9	4	12	Montana:					
Harris.....	869	613	149	38	69	Deer Lodge.....	11	3	2	...	6
Jefferson.....	112	60	34	3	15	Oregon:					
Nueces.....	89	53	21	2	13	Clackamas.....	94	78	9	1	6
Orange.....	24	13	5	2	4	Columbia.....	36	20	10	...	6
Tarrant.....	328	237	51	20	20	Coos.....	126	103	15	...	8
COLORADO REGION.....	687	537	97	16	37	Lane.....	256	199	31	12	14
GREAT BASIN REGION.....	516	330	98	32	56	Marion.....	97	71	16	2	8
Nevada:						Multnomah.....	600	473	76	16	35
Washoe.....	33	21	6	2	4	Washington:					
Utah:						Clallam.....	47	37	2	3	5
Salt Lake.....	215	146	41	13	15	Clark.....	60	40	5	1	14
Utah.....	47	32	5	2	8	Cowlitz.....	58	40	8	...	10
CALIFORNIA REGION.....	12,616	10,300	1,371	353	592	Grays Harbor.....	97	72	13	7	5
California:						Jefferson.....	13	9	2	...	2
Alameda.....	728	521	132	27	48	King.....	737	590	85	19	44
Contra Costa.....	111	51	18	5	37	Mason.....	21	10	4	1	6
Fresno.....	197	120	45	15	17	Pierce.....	228	162	30	8	28
Los Angeles.....	7,469	6,637	491	139	202	Snohomish.....	125	90	16	6	13
Monterey.....	66	38	12	3	13	Spokane.....	154	112	28	4	10
Oregon:						Whatcom.....	78	50	10	6	12
Klamath.....	41	27	7	1	6	Yakima.....	92	53	21	6	12

Table 4.—QUANTITY OF WATER USED, BY TYPE OF INDUSTRIAL USE, KIND AND
(Represents data for establishments whose gross water

Code No.	Industry and industry group	Establishments, number	Water intake (billions of gallons)				
			All purposes		Process	Cooling and air conditioning	Boiler feed, sanitary service, and other uses
			Total	Treated prior to use ¹			
	United States, total.....	10,226	11,757	4,155	3,029	7,393	1,335
20	Food and kindred products.....	2,614	590	280	151	293	146
2011	Meat packing plants.....	289	92	38	36	30	26
2013	Prepared meats.....	59	24	14	4	16	4
2015	Poultry dressing plants.....	67	4	1	2	1	1
2021	Creamery butter.....	90	9	2	1	6	2
2022	Natural cheese.....	52	3	1	(2)	2	1
2023	Concentrated milk.....	149	15	2	1	10	4
2024	Ice cream and ices.....	69	6	1	1	3	2
2025	Special dairy products.....	18	4	1	1	2	1
2026	Fluid milk.....	17	1	(2)	(2)	(2)	1
2027	Fluid milk and other products.....	388	39	11	6	16	17
2031	Canned seafood.....	17	1	1	1	(2)	(2)
2033	Canned fruits and vegetables.....	275	37	13	19	11	7
2034	Dehydrated fruits and vegetables.....	10	1	1	1	(2)	(2)
2035	Pickles and sauces.....	29	4	1	1	2	1
2036	Packaged seafood.....	12	1	(2)	(2)	1	(2)
2037	Frozen fruits and vegetables.....	72	22	3	10	9	3
2041	Flour and meal.....	28	11	1	3	1	7
2042	Prepared animal feeds.....	23	3	1	(2)	2	1
2043	Cereal breakfast foods.....	6	4	(2)	1	2	1
2044	Rice milling.....	4	(2)	(2)	(2)	(2)	(2)
2045	Flour mixes.....	5	(2)	(2)	(2)	(2)	(2)
2051	Bread and related products.....	85	7	2	3	2	2
2052	Biscuit and crackers.....	18	2	1	(2)	1	1
2061	Raw cane sugar.....	31	19	2	3	14	2
2062	Cane-sugar refining.....	19	50	2	3	38	9
2063	Beet sugar.....	59	37	6	20	12	5
2071	Confectionery products.....	40	8	2	1	5	2
2072	Chocolate and cocoa products.....	8	13	1	2	11	(2)
2073	Chewing gum.....	3	(2)	(2)	(2)	(2)	(2)
2081	Bottled soft drinks.....	92	6	2	2	2	2
2082	Beer and ale.....	172	48	143	10	17	21
2083	Malt.....	27	14	1	4	8	2
2084	Wines and brandy.....	10	2	(2)	(2)	1	1
2085	Distilled liquor.....	46	17	8	2	11	4
2091	Leavening compounds.....	16	7	4	2	4	1
2092	Shortening and cooking oils.....	42	15	3	2	8	5
2093	Margarine.....	8	1	(2)	(2)	(2)	1
2094	Corn wet milling.....	18	34	6	4	26	4
2095	Flavorings.....	14	4	1	1	2	1
2097	Manufactured ice.....	169	15	2	3	12	(2)
2099	Food preparations, n.e.c.....	56	10	2	2	5	3
21	Tobacco manufactures.....	23	2	1	(2)	1	1
2111	Cigarettes.....	13	2	1	(2)	1	1
2131	Chewing and smoking tobacco.....	5	(2)	(2)	(2)	(2)	(2)
2141	Tobacco stemming and redrying.....	4	(2)	(2)	(2)	(2)	(2)
22	Textile mill products.....	778	273	73	188	30	55
2211	Scouring and combing plants.....	18	3	(2)	2	(2)	1
2212	Yarn mills, wool, except carpet.....	8	1	(2)	1	(2)	(2)
2213	Woolen and worsted fabrics.....	84	27	8	20	2	5
2216	Finishing textiles.....	18	3	1	2	1	(2)
2222	Yarn throwing mills.....	4	(2)	(2)	(2)	(2)	(2)
2223	Thread mills.....	12	1	1	1	(2)	...
2224	Yarn mills, cotton system.....	40	5	1	1	3	1
2233	Cotton broad-woven fabrics.....	169	135	18	95	12	28
2234	Synthetic broad-woven fabrics.....	55	7	2	3	1	3
2241	Narrow fabric mills.....	4	2	(2)	2	(2)	(2)
2251	Full-fashioned hosiery mills.....	19	1	(2)	1	(2)	(2)
2252	Seamless hosiery mills.....	17	1	(2)	1	(2)	(2)
2253	Knit outerwear mills.....	9	(2)	(2)	(2)	(2)	(2)
2254	Knit underwear mills.....	12	3	1	2	(2)	1
2256	Knit fabric mills.....	38	3	2	2	(2)	1
2261	Finishing textiles, except wool.....	185	64	36	49	7	8
2271	Wool carpets and rugs.....	20	9	2	2	2	5
2273	Carpets and rugs, except wool.....	13	1	1	1	(2)	(2)
2274	Hard-surface floor coverings.....	6	2	1	(2)	1	1
2281	Fur-felt hats and hat bodies.....	7	1	(2)	1	(2)	(2)
2282	Wool-felt hats and hat bodies.....	1	(2)	(2)	(2)	(2)	(2)
2291	Felt goods, n.e.c.....	8	1	(2)	1	(2)	(2)
2292	Lace goods.....	5	(2)	(2)	(2)	(2)	(2)
2293	Padding and upholstery filling.....	8	(2)	(2)	(2)	(2)	(2)
2294	Processed textile waste.....	4	(2)	(2)	(2)	(2)	(2)

INDUSTRIAL WATER USE

209-23

SOURCE OF WATER FOR INDUSTRY GROUP AND INDUSTRIES: 1954

intake for 1954 was 20 million gallons or more)

Water discharged (billions of gallons)		Number of establishments recirculating or reusing water	Number of establishments treating water prior to recirculation or reuse	Water required if no water was recirculated or reused (billions of gallons)	Water intake, by kind of water (billions of gallons)					Code No.	
Total	Treated prior to discharge ¹				Fresh	Total	From public water system	From company surface water system	From company ground water system		Brackish (salt)
10,677	1,373	6,770	1,310	21,906	10,135	1,663	6,899	1,573	1,622		
526	38	1,726	237	1,248	530	200	120	210	60	20	
77	8	201	31	157	89	39	8	42	3	2011	
21	(²)	35	5	29	22	19	1	2	2	2013	
4	(²)	27	2	7	4	2	(²)	2	(²)	2015	
9	(²)	61	7	14	9	2	1	6	(²)	2021	
3	(²)	38	2	5	3	1	(²)	2	(²)	2022	
15	(²)	86	9	20	15	2	3	10	(²)	2023	
5	(²)	45	4	10	5	2	(²)	3	1	2024	
4	(²)	13	2	6	4	1	1	2	(²)	2025	
1	(²)	8	2	1	1	1	(²)	(²)	(²)	2026	
34	2	265	33	70	36	15	4	17	3	2027	
1	(²)	7	...	2	1	1	(²)	(²)	(²)	2031	
33	(²)	200	31	51	35	18	2	15	2	2033	
1	(²)	7	2	2	1	(²)	(²)	1	(²)	2034	
3	(²)	19	4	6	3	2	(²)	1	1	2035	
1	(²)	3	...	2	(²)	(²)	(²)	(²)	1	2036	
20	10	56	8	31	22	3	2	17	(²)	2037	
9	(²)	13	1	14	11	10	(²)	1	(²)	2041	
3	(²)	10	2	5	3	2	(²)	1	(²)	2042	
3	...	3	...	4	4	1	(²)	3	...	2043	
(²)	(²)	4	...	1	(²)	(²)	(²)	(²)	(²)	2044	
(²)	(²)	2	1	1	(²)	(²)	(²)	(²)	(²)	2045	
6	(²)	29	2	10	7	4	1	2	(²)	2051	
2	(²)	13	4	3	2	1	(²)	1	(²)	2052	
17	3	20	3	21	18	2	14	2	1	2061	
49	4	16	3	56	19	4	15	(²)	31	2062	
37	8	43	4	48	37	6	15	16	(²)	2063	
7	(²)	32	5	18	6	3	1	2	2	2071	
12	(²)	5	...	20	13	1	7	5	(²)	2072	
(²)	(²)	3	1	1	(²)	(²)	(²)	(²)	(²)	2073	
5	(²)	50	...	9	6	4	1	1	(²)	2081	
40	1	144	24	369	43	27	4	12	5	2082	
13	(²)	15	2	15	14	4	6	4	(²)	2083	
1	(²)	7	1	2	2	1	(²)	1	(²)	2084	
15	(²)	28	6	25	17	3	4	10	(²)	2085	
5	(²)	13	4	79	7	2	1	4	(²)	2091	
13	1	35	9	32	10	5	2	3	5	2092	
1	(²)	3	1	2	1	(²)	(²)	1	(²)	2093	
31	(²)	14	4	46	34	2	24	8	(²)	2094	
3	(²)	9	...	6	3	1	1	1	1	2095	
13	1	112	14	14	13	2	1	10	2	2097	
9	(²)	30	4	34	10	7	1	2	(²)	2099	
1	...	19	11	11	2	2	(²)	(²)	...	21	
1	...	12	7	10	2	2	...	(²)	...	2111	
(²)	...	4	2	1	(²)	(²)	(²)	(²)	...	2131	
(²)	...	2	1	(²)	(²)	(²)	...	(²)	...	2141	
228	13	432	53	307	270	47	108	115	3	22	
2	(²)	10	...	3	3	1	2	(²)	(²)	2211	
1	(²)	5	...	1	1	(²)	1	(²)	(²)	2212	
19	1	40	3	29	27	3	22	2	(²)	2213	
2	(²)	9	2	2	3	1	2	(²)	(²)	2216	
(²)	(²)	3	...	2	(²)	(²)	(²)	(²)	(²)	2222	
1	(²)	8	4	2	1	1	(²)	(²)	...	2223	
4	(²)	24	3	6	5	1	3	1	(²)	2224	
118	2	102	16	150	134	10	21	103	1	2233	
5	1	42	4	11	7	3	3	1	(²)	2234	
2	...	2	...	2	2	2	(²)	...	...	2241
1	(²)	9	...	3	1	1	(²)	(²)	(²)	2251	
1	(²)	6	...	1	1	1	(²)	(²)	(²)	2252	
(²)	(²)	3	1	(²)	(²)	(²)	(²)	(²)	(²)	2253	
2	(²)	7	...	3	3	1	1	1	(²)	2254	
3	(²)	15	2	3	3	1	1	1	(²)	2256	
54	8	94	6	65	62	11	46	5	2	2261	
5	1	15	2	12	9	5	3	1	(²)	2271	
1	(²)	3	1	1	1	1	(²)	(²)	(²)	2273	
2	(²)	6	2	4	2	1	1	(²)	(²)	2274	
1	(²)	4	1	1	1	1	(²)	(²)	(²)	2281	
(²)	(²)	...	...	(²)	(²)	(²)	(²)	(²)	(²)	2282
1	(²)	6	...	1	1	1	(²)	(²)	(²)	2291	
(²)	(²)	2	...	(²)	(²)	(²)	(²)	(²)	(²)	2292	
(²)	(²)	5	1	1	(²)	(²)	(²)	(²)	(²)	2293	
(²)	...	1	...	(²)	(²)	(²)	(²)	(²)	(²)	2294	

Table 4.—QUANTITY OF WATER USED, BY TYPE OF INDUSTRIAL USE, KIND AND
(Represents data for establishments whose gross water

Code No.	Industry and industry group	Establishments, number	Water intake (billions of gallons)				
			All purposes		Process	Cooling and air conditioning	Boiler feed, sanitary service, and other uses
			Total	Treated prior to use ¹			
22	Textile mill products—Continued						
2295	Coated fabric, except rubberized.....	7	2	(2)	1	1	(2)
2298	Cordage and twine.....	4	1	(2)	(2)	(2)	1
2299	Textile goods, n.e.c.....	3	(2)	(2)	(2)	...	(2)
23	Apparel and related products.....	12	(2)	(2)	(2)	(2)	(2)
24	Lumber and wood products.....	308	133	7	23	53	57
2411	Logging camps and contractors.....	12	4	(2)	3	(2)	1
2421	Sawmills and planing mills.....	186	104	5	16	44	44
2422	Veneer mills.....	5	(2)	(2)	(2)	(2)	(2)
2431	Millwork plants.....	17	2	(2)	(2)	(2)	2
2432	Plywood plants.....	39	13	1	3	7	3
2444	Wooden boxes.....	12	5	1	(2)	(2)	5
2491	Wood preserving.....	17	2	(2)	(2)	1	1
2499	Wood products, n.e.c.....	12	2	(2)	(2)	1	1
25	Furniture and fixtures.....	64	7	2	3	3	1
2511	Wood furniture, not upholstered.....	19	4	1	1	2	1
2514	Metal household furniture.....	12	1	(2)	1	(2)	(2)
2515	Mattresses and bedsprings.....	3	1	(2)	(2)	1	(2)
2522	Metal office furniture.....	10	1	(2)	1	(2)	(2)
2531	Public-building furniture.....	3	(2)	(2)	(2)	(2)	(2)
2541	Partitions and fixtures.....	7	(2)	(2)	(2)	(2)	(2)
26	Pulp, paper and products.....	867	1,607	843	1,107	324	176
2611	Pulp mills.....	211	755	411	524	162	69
2612	Paper and paperboard mills.....	495	748	403	525	138	85
2613	Building paper and board mills.....	56	41	7	28	8	5
2641	Paper coating and glazing.....	28	20	9	11	7	2
2661	Paper bags.....	8	1	(2)	1	(2)	(2)
2671	Paperboard boxes.....	23	9	3	5	2	2
2674	Fiber cans, tubes, drums, etc.....	3	(2)	...	(2)	(2)	(2)
2691	Die-cut paper and board.....	4	16	3	4	1	11
2693	Wallpaper.....	3	(2)	...	(2)	(2)	(2)
2694	Pulp goods, pressed and molded.....	8	2	(2)	2	(2)	(2)
2699	Paper and board products, n.e.c.....	28	15	7	7	6	2
27	Printing and publishing.....	114	13	1	3	5	5
2711	Newspapers.....	53	7	(2)	1	2	4
2721	Periodicals.....	5	(2)	(2)	(2)	(2)	(2)
2751	Commercial printing.....	31	4	1	1	2	1
2761	Lithographing.....	14	1	(2)	(2)	1	(2)
2794	Electrotyping and stereotyping.....	3	(2)	(2)	(2)	(2)	(2)
28	Chemicals and products.....	1,162	2,810	1,124	308	2,301	201
2811	Sulfuric acid.....	36	42	9	3	37	2
2812	Alkalies and chlorine.....	25	402	108	22	371	9
2819	Inorganic chemicals, n.e.c.....	145	799	485	122	626	51
2821	Cyclic (coal tar) crudes.....	17	8	1	2	5	1
2822	Intermediates and organic colors.....	45	143	51	9	116	18
2823	Plastics materials.....	67	65	33	7	47	11
2824	Synthetic rubber.....	17	33	27	3	28	2
2825	Synthetic fibers.....	38	194	74	29	131	34
2826	Explosives.....	32	48	21	10	30	8
2829	Organic chemicals, n.e.c.....	112	666	219	25	618	23
2831	Biological products.....	6	(2)	(2)	(2)	(2)	(2)
2833	Medicinal chemicals (including botanicals).....	26	27	4	3	22	2
2834	Pharmaceutical preparations.....	43	31	17	4	24	3
2841	Soap and glycerin.....	31	25	4	4	19	2
2842	Cleaning and polishing products.....	16	7	1	(2)	7	(2)
2843	Sulfonated oils and assistants.....	3	3	1	(2)	3	(2)
2851	Paints and varnishes.....	44	11	2	2	6	3
2852	Inorganic color pigments.....	33	41	14	16	23	2
2861	Hardwood distillation.....	4	7	1	2	5	(2)
2862	Softwood distillation.....	13	24	13	1	21	2
2863	Gum naval stores.....	5	(2)	(2)	(2)	(2)	(2)
2865	Tanning and dyeing materials.....	5	1	(2)	(2)	(2)	1
2871	Fertilizers.....	69	38	4	6	26	6
2872	Fertilizers, mixing only.....	6	2	1	(2)	2	(2)
2881	Cottonseed oil mills.....	14	3	1	(2)	2	1
2882	Linseed oil mills.....	6	4	1	(2)	4	(2)
2883	Soybean oil mills.....	40	9	3	1	7	1
2884	Vegetable oil mills, n.e.c.....	7	4	(2)	1	3	(2)
2886	Grease and tallow.....	66	11	4	1	8	2
2887	Fatty acids.....	11	6	2	1	4	1

See footnotes at end of table.

SOURCE OF WATER FOR INDUSTRY GROUP AND INDUSTRIES: 1954—Continued

intake for 1954 was 20 million gallons or more)

Water discharged (billions of gallons)		Number of establishments recirculating or reusing water	Number of establishments treating water prior to recirculation or reuse	Water required if no water was recirculated or reused (billions of gallons)	Water intake, by kind of water (billions of gallons)					
Total	Treated prior to discharge				Fresh				Brackish (salt)	
					Total	From public water system	From company surface water system	From company ground water system		
2	(2)	7	2	3	2	1	1	(2)	(2)	2295
1	...	2	1	1	1	(2)	1	(2)	...	2298
(2)	...	2	2	(2)	(2)	(2)	(2)	(2)	...	2299
(2)	(2)	6	1	(2)	(2)	(2)	...	...	(2)	23
111	1	196	22	155	107	10	81	16	26	24
3	(2)	6	...	8	4	(2)	3	1	(2)	2411
87	1	115	12	120	81	5	63	13	23	2421
(2)	(2)	2	...	(2)	(2)	(2)	(2)	(2)	(2)	2422
2	(2)	15	3	2	2	(2)	2	(2)	(2)	2431
12	(2)	28	2	14	11	1	9	1	2	2432
3	(2)	9	2	6	5	4	(2)	1	...	2444
2	(2)	8	1	2	1	(2)	1	(2)	1	2491
1	(2)	10	2	2	2	(2)	2	(2)	(2)	2499
4	(2)	36	7	8	7	3	4	(2)	(2)	25
3	(2)	13	1	4	4	1	3	(2)	(2)	2511
1	(2)	6	1	1	1	1	(2)	(2)	(2)	2514
(2)	(2)	3	2	1	1	(2)	1	(2)	...	2515
(2)	(2)	6	1	1	1	1	(2)	(2)	(2)	2522
(2)	(2)	1	1	(2)	(2)	(2)	...	...	...	2531
(2)	(2)	5	...	1	(2)	(2)	(2)	(2)	(2)	2541
1,437	201	763	156	4,129	1,472	211	998	263	135	26
681	73	196	35	1,957	670	133	410	127	85	2611
662	120	449	101	1,968	701	65	514	122	47	2612
38	4	50	4	84	38	4	30	4	3	2613
19	1	19	6	29	20	4	10	6	(2)	2641
1	(2)	4	1	1	...	...	...	...	...	2661
7	(2)	13	1	24	9	2	5	2	(2)	2671
(2)	...	...	...	(2)	(2)	(2)	...	(2)	...	2674
15	1	4	1	26	16	1	14	1	(2)	2691
(2)	...	2	...	(2)	(2)	(2)	(2)	...	...	2693
2	(2)	8	...	4	2	1	1	(2)	(2)	2694
12	2	18	7	36	15	1	13	1	(2)	2699
12	(2)	64	17	19	13	12	1	(2)	(2)	27
6	(2)	32	6	7	7	6	1	(2)	(2)	2711
(2)	...	2	...	1	(2)	(2)	...	(2)	...	2721
4	(2)	14	6	8	4	4	(2)	(2)	(2)	2751
1	...	10	3	1	1	1	(2)	(2)	(2)	2761
(2)	...	2	1	1	(2)	(2)	...	(2)	...	2794
2,554	332	779	198	5,004	2,297	212	1,451	634	513	28
36	13	27	9	153	29	2	24	3	13	2811
395	(2)	16	2	449	263	7	245	11	139	2812
655	17	112	28	1,696	773	59	282	432	26	2819
7	(2)	7	2	8	3	1	1	1	5	2821
135	42	33	9	199	136	23	104	9	7	2822
62	12	52	16	118	63	9	44	10	2	2823
31	25	14	2	120	32	1	25	6	1	2824
189	65	32	13	383	193	2	167	24	1	2825
46	8	20	6	57	47	1	38	8	1	2826
636	87	82	26	1,066	439	26	372	41	227	2829
(2)	(2)	3	...	(2)	(2)	...	(2)	(2)	...	2831
27	1	20	8	35	12	3	5	4	15	2833
28	4	33	11	62	29	7	11	11	2	2834
23	2	22	11	38	16	4	8	4	9	2841
7	3	6	...	8	7	1	5	1	(2)	2842
2	1	2	1	5	3	(2)	2	1	(2)	2843
10	1	25	6	15	9	4	3	2	2	2851
39	27	22	8	56	27	4	19	4	14	2852
6	...	2	...	7	7	(2)	6	1	...	2861
23	3	12	...	51	24	(2)	5	19	(2)	2862
(2)	...	2	...	(2)	(2)	(2)	...	(2)	...	2863
(2)	...	2	...	1	1	(2)	1	(2)	(2)	2865
33	7	35	5	46	21	1	8	12	17	2871
2	(2)	4	...	3	2	(2)	1	1	(2)	2872
3	(2)	11	4	5	3	(2)	1	2	(2)	2881
4	(2)	5	...	7	4	1	2	1	(2)	2882
8	1	24	10	27	8	1	2	5	1	2883
4	(2)	5	2	7	3	1	2	(2)	1	2884
10	2	33	1	16	9	1	4	4	2	2886
5	1	10	4	13	5	1	3	1	1	2887

Table 4.—QUANTITY OF WATER USED, BY TYPE OF INDUSTRIAL USE, KIND AND
(Represents data for establishments whose gross water

Code No.	Industry and industry group	Establishments, number	Water intake (billions of gallons)				
			All purposes		Process	Cooling and air conditioning	Boiler feed, sanitary service, and other uses
			Total	Treated prior to use ¹			
Chemicals and allied products—Continued							
2889	Animal oils, n.e.c.....	11	5	1	(2)	5	(2)
2891	Printing ink.....	4	1	(2)	1	(2)	(2)
2892	Essential oils.....	3	(2)	...	(2)	(2)	(2)
2893	Toilet preparations.....	11	9	4	1	7	1
2894	Glue and gelatin.....	20	9	3	6	2	1
2895	Carbon black.....	19	3	1	2	1	(2)
2896	Compressed and liquefied gases.....	55	74	7	2	70	2
2897	Insecticides and fungicides.....	11	5	2	(2)	4	1
2898	Salt.....	19	40	1	19	11	10
2899	Chemical products, n.e.c.....	26	10	4	3	6	1
29	Petroleum and coal products.....	376	1,516	280	160	1,220	136
2911	Petroleum refining.....	243	1,220	191	101	998	121
2932	Byproduct coke ovens.....	71	269	84	56	200	13
2951	Paving mixtures and blocks.....	8	1	(2)	(2)	1	(2)
2952	Roofing felts and coatings.....	37	21	3	3	16	2
2992	Lubricants, n.e.c.....	12	2	1	(2)	2	(2)
2999	Petroleum and coal products, n.e.c.....	4	3	1	(2)	3	(2)
30	Rubber products.....	179	113	27	13	66	34
3011	Tires and inner tubes.....	37	64	21	7	33	24
3021	Rubber footwear.....	5	4	(2)	(2)	3	1
3031	Reclaimed rubber.....	10	4	(2)	2	2	(2)
3099	Rubber industries, n.e.c.....	127	41	6	4	28	9
31	Leather and leather goods.....	134	20	4	14	2	4
3111	Leather tanning and finishing.....	123	20	4	14	2	4
3141	Footwear, except rubber.....	5	(2)	(2)	(2)	(2)	(2)
32	Stone, clay, and glass products.....	472	267	44	57	161	49
3211	Flat glass.....	17	26	10	11	13	2
3221	Glass containers.....	47	8	1	(2)	2	6
3229	Pressed and blown glass, n.e.c.....	34	6	3	1	4	1
3231	Products of purchased glass.....	13	6	1	4	2	(2)
3241	Cement, hydraulic.....	125	165	16	10	125	30
3251	Brick and hollow tile.....	12	1	(2)	(2)	1	(2)
3253	Floor and wall tile.....	3	(2)	(2)	(2)	(2)	(2)
3255	Clay refractories.....	7	1	(2)	(2)	1	(2)
3261	Vitreous plumbing fixtures.....	10	2	(2)	(2)	1	1
3262	Vitreous-china food utensils.....	5	2	(2)	1	1	(2)
3263	Earthenware food utensils.....	5	(2)	(2)	(2)	(2)	(2)
3264	Porcelain electrical supplies.....	8	1	(2)	(2)	1	(2)
3271	Concrete products.....	13	1	(2)	1	(2)	(2)
3272	Gypsum products.....	28	8	4	2	3	3
3274	Lime.....	18	6	2	3	1	2
3275	Mineral wool.....	15	4	1	2	1	1
3281	Cut-stone and stone products.....	14	1	(2)	(2)	1	(2)
3291	Abrasive products.....	16	4	2	2	1	1
3292	Asbestos products.....	38	7	1	4	1	2
3293	Gaskets and asbestos insulations.....	9	2	(2)	1	1	(2)
3295	Minerals: ground or treated.....	19	2	(2)	2	(2)	(2)
3297	Nonclay refractories.....	8	13	4	13	(2)	(2)
3299	Nonmetallic mineral products, n.e.c.....	4	1	(2)	(2)	1	(2)
33	Primary metal industries.....	865	3,641	1,352	795	2,632	214
3311	Blast furnaces and steel mills.....	76	836	463	123	681	32
3312	Steel works and rolling mills.....	176	1,976	728	578	1,288	110
3313	Electrometallurgical products.....	21	197	57	1	192	4
3321	Gray-iron foundries.....	69	30	3	11	11	8
3322	Malleable-iron foundries.....	23	5	(2)	1	3	1
3323	Steel foundries.....	60	28	8	5	18	5
3331	Primary copper.....	21	42	11	6	34	2
3332	Primary lead.....	12	8	2	1	4	3
3333	Primary zinc.....	16	18	3	(2)	17	1
3334	Primary aluminum.....	16	263	11	1	244	18
3339	Primary nonferrous metals, n.e.c.....	7	70	5	15	54	1
3341	Secondary nonferrous metals.....	20	2	(2)	1	1	(2)
3351	Copper rolling and drawing.....	51	42	18	15	22	5
3352	Aluminum rolling and drawing.....	31	34	21	9	16	9
3359	Rolling and drawing, n.e.c.....	12	3	1	1	2	(2)
3361	Nonferrous foundries.....	53	13	3	4	6	3
3391	Iron and steel forgings.....	47	17	5	4	9	4

See footnotes at end of table.

INDUSTRIAL WATER USE

209-27

SOURCE OF WATER FOR INDUSTRY GROUP AND INDUSTRIES: 1954--Continued

intake for 1954 was 20 million gallons or more)

Water discharged (billions of gallons)		Number of establishments recirculating or reusing water	Number of establishments treating water prior to recirculation or reuse	Water required if no water was recirculated or reused (billions of gallons)	Water intake, by kind of water (billions of gallons)					Code No.
Total	Treated prior to discharge				Fresh				Brackish (salt)	
					Total	From public water system	From company surface water system	From company ground water system		
5	1	7	2	7	2	(2)	1	1	3	2889
(2)	(2)	3	1	1	1	(2)	1	(2)	(2)	2891
(2)	...	2	1	(2)	(2)	(2)	(2)	(2)	...	2892
8	2	9	3	15	7	1	4	2	2	2893
8	4	11	2	11	8	1	5	2	1	2894
1	(2)	11	1	5	3	(2)	1	2	(2)	2895
72	(2)	27	5	240	74	47	25	2	(2)	2896
4	1	8	5	14	5	1	2	2	(2)	2897
21	(2)	14	...	44	20	(2)	18	2	20	2898
9	2	14	2	16	9	2	4	3	1	2899
1,388	458	304	129	4,515	908	117	689	102	608	29
1,111	441	215	108	4,083	655	102	468	85	565	2911
252	10	55	19	360	234	11	211	12	35	2932
1	(2)	4	...	2	1	(2)	1	(2)	(2)	2951
19	6	21	...	56	14	4	6	4	7	2952
2	(2)	6	2	5	2	(2)	1	1	(2)	2992
3	1	3	...	9	2	(2)	2	(1)	1	2999
108	1	137	21	170	108	43	48	17	5	30
63	1	35	10	94	64	25	30	9	(2)	3011
3	(2)	4	1	5	3	1	2	(2)	1	3021
4	(2)	6	...	7	4	1	1	2	...	3031
38	(2)	92	10	64	37	16	15	6	4	3099
18	4	68	10	22	19	12	4	3	1	31
18	4	63	10	22	19	12	4	3	1	3111
(2)	...	1	...	(2)	(2)	(2)	(2)	...	...	3141
244	27	288	71	563	246	25	199	22	21	32
24	1	15	4	47	26	1	24	1	(2)	3211
8	(2)	29	4	16	7	4	1	3	1	3221
6	1	26	12	11	6	3	(2)	3	(2)	3229
6	(2)	7	3	8	6	4	2	(2)	(2)	3231
153	19	77	19	224	158	4	147	7	7	3241
1	(2)	3	...	3	1	(2)	1	(2)	(2)	3251
(2)	(2)	1	...	1	(2)	(2)	(2)	(2)	(2)	3253
1	(2)	5	1	4	1	(2)	1	(2)	(2)	3255
2	(2)	7	3	8	2	(2)	1	(2)	(2)	3261
2	(2)	5	...	7	2	(2)	2	(2)	(2)	3262
(2)	...	1	...	(2)	(2)	(2)	...	...	...	3263
1	(2)	2	2	3	1	(2)	1	...	...	3264
(2)	...	2	1	1	1	(2)	(2)	1	...	3271
7	2	14	4	15	6	1	4	1	2	3272
3	(2)	11	3	161	6	2	2	2	(2)	3274
3	(2)	14	5	5	4	(2)	2	2	(2)	3275
1	(2)	6	...	3	1	(2)	1	(2)	(2)	3281
3	(2)	10	3	4	2	2	2	(2)	(2)	3291
6	2	27	2	14	7	2	4	1	(2)	3292
2	1	5	2	7	2	1	1	(2)	(2)	3293
2	1	10	1	4	2	1	1	(2)	(2)	3295
12	(2)	5	...	15	2	(2)	1	1	11	3297
1	...	3	1	1	1	(2)	1	...	...	3299
3,389	270	593	102	4,654	3,420	271	3,044	105	221	33
800	117	60	13	1,104	770	34	720	16	66	3311
1,905	128	130	25	2,496	1,921	78	1,793	50	55	3312
196	3	12	2	241	197	77	118	2	...	3313
28	1	40	6	38	29	7	21	1	1	3321
5	(2)	11	...	7	5	2	3	(2)	(2)	3322
25	2	36	3	33	27	6	19	2	1	3323
39	1	18	3	76	14	3	9	2	28	3331
7	1	11	2	12	6	1	4	1	2	3332
16	(2)	12	3	28	16	3	8	5	2	3333
154	5	14	5	341	263	6	248	9	(2)	3334
63	(2)	6	...	74	10	1	8	1	60	3339
2	(2)	14	1	3	2	1	(2)	1	(2)	3341
37	2	40	4	50	41	9	30	2	1	3351
33	1	24	4	45	33	15	12	6	1	3352
2	(2)	6	2	3	3	1	1	1	(2)	3359
11	1	35	7	16	12	5	6	1	1	3361
15	1	25	5	21	16	6	9	1	1	3391

Table 4.—QUANTITY OF WATER USED, BY TYPE OF INDUSTRIAL USE, KIND AND

(Represents data for establishments whose gross water

Code No.	Industry and industry group	Establishments, number	Water intake (billions of gallons)				
			All purposes		Process	Cooling and air conditioning	Boiler feed, sanitary service, and other uses
			Total	Treated prior to use ¹			
33	Primary metal industries—Continued						
3392	Wire drawing.....	73	39	10	11	22	6
3393	Welded and heavy-riveted pipe.....	26	10	1	5	4	1
3399	Primary metal industries, n.e.c.....	55	8	2	3	4	1
34	Fabricated metal products.....	547	196	39	46	93	57
3411	Tin cans and other tinware.....	29	79	1	1	69	9
3421	Cutlery.....	6	2	(2)	1	1	(2)
3422	Edge tools.....	3	(2)	(2)	(2)	(2)	(2)
3423	Hand tools, n.e.c.....	10	1	(2)	1	(2)	(2)
3425	Hand saws and saw blades.....	3	3	(2)	(2)	1	2
3429	Hardware, n.e.c.....	50	13	1	7	3	3
3431	Plumbing fixtures and fittings.....	29	6	1	2	2	2
3439	Heating and cooking equipment, n.e.c.....	51	7	1	3	2	2
3441	Structural and ornamental work.....	26	6	1	2	3	1
3442	Metal doors, sash, and trim.....	10	1	(2)	1	(2)	(2)
3443	Boiler shop products.....	23	42	29	10	2	30
3444	Sheet-metal work.....	10	3	1	1	1	1
3461	Vitreous-enamelled products.....	8	(2)	(2)	(2)	(2)	(2)
3463	Metal stampings.....	82	10	(2)	5	3	2
3467	Engraving on metal.....	2	(2)	...	(2)	...	(2)
3468	Plating and polishing.....	66	4	1	3	(2)	1
3471	Lighting fixtures.....	19	5	2	3	1	1
3489	Wirework, n.e.c.....	33	3	(2)	1	1	1
3491	Metal barrels, drums, and pails.....	9	1	(2)	(2)	1	(2)
3492	Safes and vaults.....	3	(2)	(2)	(2)	(2)	(2)
3493	Steel springs.....	11	2	(2)	1	(2)	1
3494	Bolts, nuts, washers, and rivets.....	37	7	1	4	2	1
3495	Screw machine products.....	4	(2)	(2)	(2)	(2)	(2)
3496	Collapsible tubes.....	6	(2)	...	(2)	(2)	(2)
3497	Metal foil.....	6	1	(2)	(2)	1	(2)
3499	Fabricated metal products, n.e.c.....	8	(2)	(2)	(2)	(2)	(2)
35	Machinery, except electrical.....	513	120	16	40	32	48
3511	Steam engines and turbines.....	8	1	1	(2)	(2)	1
3519	Internal combustion engines.....	31	7	(2)	2	1	4
3521	Tractors.....	22	18	2	8	4	6
3522	Farm machinery (except tractors).....	30	11	1	2	6	3
3531	Construction and mining machinery.....	28	3	(2)	(2)	1	2
3532	Oil-field machinery and tools.....	10	4	(2)	(2)	1	3
3541	Machine tools.....	20	4	(2)	1	1	2
3542	Metalworking machinery.....	18	2	2	1	(2)	1
3544	Special dies and tools.....	8	1	(2)	(2)	(2)	1
3545	Metalworking machinery attachments.....	10	1	(2)	(2)	(2)	1
3551	Food-products machinery.....	12	1	(2)	(2)	(2)	1
3552	Textile machinery.....	8	4	(2)	1	(2)	3
3553	Woodworking machinery.....	3	(2)	(2)	(2)	(2)	(2)
3554	Paper-industries machinery.....	6	(2)	...	(2)	(2)	(2)
3555	Printing-trades machinery.....	6	1	(2)	(2)	(2)	1
3559	Special-industry machinery, n.e.c.....	8	4	(2)	(2)	3	1
3561	Pumps and compressors.....	23	6	3	1	(2)	5
3563	Conveyors.....	6	(2)	(2)	(2)	(2)	(2)
3564	Blowers and fans.....	8	(2)	(2)	(2)	(2)	(2)
3565	Industrial trucks and tractors.....	4	(2)	(2)	(2)	(2)	(2)
3566	Power-transmission equipment.....	30	4	(2)	2	1	1
3567	Industrial furnaces and ovens.....	3	1	(2)	(2)	1	(2)
3569	General industrial machinery, n.e.c.....	5	(2)	(2)	(2)	(2)	(2)
3571	Computing and related machines.....	14	7	1	2	4	1
3572	Typewriters.....	3	1	1	1	(2)	(2)
3579	Office and store machines, n.e.c.....	6	1	(2)	(2)	(2)	1
3581	Domestic laundry equipment.....	12	7	(2)	3	3	1
3582	Laundry and dry-cleaning machinery.....	3	(2)	(2)	(2)	(2)	(2)
3584	Vacuum cleaners.....	4	(2)	(2)	(2)	(2)	(2)
3585	Refrigeration machinery.....	59	19	2	9	4	6
3586	Measuring and dispensing pumps.....	5	(2)	...	(2)	(2)	(2)
3589	Service and household machines, n.e.c.....	5	1	(2)	1	(2)	(2)
3591	Valves and fittings, except plumbers.....	37	4	1	2	1	1
3593	Ball and roller bearings.....	23	4	1	3	(2)	1
3599	Machine shops.....	26	3	1	1	1	1
36	Electrical machinery.....	326	118	15	24	43	51
3611	Wiring devices and supplies.....	24	3	(2)	1	1	1
3612	Carbon and graphite products.....	8	1	(2)	(2)	1	(2)
3613	Electrical measuring instruments.....	9	5	2	1	3	1
3614	Motors and generators.....	38	11	3	4	4	3

See footnotes at end of table.

SOURCE OF WATER FOR INDUSTRY GROUP AND INDUSTRIES: 1954—Continued
intake for 1954 was 20 million gallons or more)

Water discharged (billions of gallons)		Number of establishments recirculating or reusing water	Number of establishments treating water prior to recirculation or reuse	Water required if no water was recirculated or reused (billions of gallons)	Water intake, by kind of water (billions of gallons)					Code No.
Total	Treated prior to discharge				Fresh				Brackish (salt)	
					Total	From public water system	From company surface water system	From company ground water system		
34	3	56	7	45	37	9	26	2	2	3392
10	2	18	4	12	10	4	5	1	(2)	3393
7	1	25	6	9	8	3	4	1	(2)	3399
186	5	281	40	275	195	177	5	13	1	34
79	(2)	11	3	81	79	79	(2)	(2)	(2)	3411
1	(2)	4	2	2	1	1	(2)	(2)	1	3421
(2)	(2)	1	...	(2)	(2)	(2)	(2)	(2)	(2)	3422
(2)	...	4	1	1	1	1	(2)	(2)	(2)	3423
3	(2)	2	1	3	3	(2)	2	1	(2)	3425
12	3	27	7	13	13	11	(2)	2	(2)	3429
5	(2)	19	2	7	6	5	(2)	1	(2)	3431
6	1	26	3	8	7	6	(2)	1	(2)	3439
5	(2)	14	1	6	6	4	(2)	2	(2)	3441
(2)	(2)	4	...	1	1	...	...	1	...	3442
42	(2)	18	5	43	42	42	(2)	(2)	(2)	3443
3	1	5	1	3	3	2	(2)	1	(2)	3444
(2)	(2)	3	...	(2)	(2)	(2)	(2)	(2)	(2)	3461
9	(2)	48	7	82	10	9	(2)	1	(2)	3463
(2)	...	1	...	(2)	(2)	(2)	...	(2)	...	3467
4	(2)	22	1	5	4	4	(2)	(2)	(2)	3468
5	(2)	10	...	6	5	3	1	1	(2)	3471
3	(2)	13	...	3	3	2	(2)	1	(2)	3489
1	(2)	4	1	1	1	1	(2)	(2)	(2)	3491
(2)	(2)	2	...	(2)	(2)	(2)	...	(2)	...	3492
1	(2)	6	...	2	2	1	1	(2)	(2)	3493
6	(2)	27	4	7	7	5	1	1	(2)	3494
(2)	(2)	2	...	(2)	(2)	(2)	(2)	(2)	(2)	3495
(2)	...	1	...	(2)	(2)	(2)	...	(2)	(2)	3496
1	(2)	3	...	1	1	1	...	(2)	(2)	3497
(2)	(2)	4	1	(2)	(2)	(2)	(2)	(2)	(2)	3499
101	3	327	61	183	117	58	37	22	3	35
1	(2)	8	2	5	1	1	(2)	(2)	(2)	3511
6	(2)	19	1	24	7	3	2	2	(2)	3519
17	2	16	6	22	18	5	11	2	(2)	3521
4	(2)	21	3	11	11	3	7	1	(2)	3522
2	(2)	16	3	4	3	2	(2)	1	(2)	3531
3	(2)	8	1	17	4	1	2	1	(2)	3532
3	(2)	12	1	4	4	3	1	(2)	(2)	3541
2	(2)	12	4	2	2	1	1	(2)	(2)	3542
1	...	2	1	1	1	1	(2)	(2)	...	3544
1	(2)	6	...	1	1	1	(2)	(2)	(2)	3545
1	(2)	9	1	1	1	1	(2)	(2)	(2)	3551
4	(2)	3	...	4	4	(2)	4	(2)	...	3552
(2)	...	2	2	1	(2)	(2)	...	...	...	3553
(2)	...	1	...	(2)	(2)	(2)	(2)	(2)	...	3554
1	(2)	4	...	1	1	1	(2)	(2)	(2)	3555
1	(2)	5	...	6	1	1	(2)	(2)	3	3559
6	(2)	16	3	7	6	2	4	(2)	(2)	3561
(2)	...	2	1	(2)	(2)	(2)	...	...	...	3563
(2)	(2)	3	1	(2)	(2)	(2)	...	(2)	...	3564
(2)	(2)	2	...	(2)	(2)	(2)	...	(2)	...	3565
3	(2)	12	3	11	4	3	(2)	1	(2)	3566
1	...	2	1	1	1	(2)	1	(2)	...	3567
(2)	...	4	3	1	(2)	(2)	...	(1)	...	3569
6	(2)	9	...	11	7	1	3	3	(2)	3571
1	...	2	1	1	1	(2)	...	1	...	3572
1	(2)	5	3	1	1	1	(2)	(2)	(2)	3579
7	(2)	7	2	8	7	7	(2)	(2)	(2)	3581
(2)	...	...	...	(2)	(2)	(2)	...	(2)	...	3582
(2)	(2)	4	1	1	(2)	(2)	...	(2)	...	3584
18	1	42	12	21	19	11	1	7	(2)	3585
(2)	...	3	...	(2)	(2)	(2)	...	...	...	3586
1	(2)	4	1	1	1	1	(2)	(2)	(2)	3589
3	(2)	25	2	5	4	4	(2)	(2)	(2)	3591
4	(2)	17	1	5	4	2	(2)	2	(2)	3593
3	(2)	18	1	4	3	2	(2)	1	(2)	3599
78	5	207	46	142	107	71	29	7	11	36
2	(2)	15	1	3	3	2	1	(2)	(2)	3611
1	(2)	6	1	3	1	1	(2)	(2)	(2)	3612
5	(2)	8	2	6	5	1	4	(2)	(2)	3613
11	(2)	28	8	14	11	4	5	2	(2)	3614

Table 4.—QUANTITY OF WATER USED, BY TYPE OF INDUSTRIAL USE, KIND AND
(Represents data for establishments whose gross water

Code No.	Industry and industry group	Establishments, number	Water intake (billions of gallons)				
			All purposes		Process	Cooling and air conditioning	Boiler feed, sanitary service, and other uses
			Total	Treated prior to use ¹			
	Electrical machinery—Continued						
3615	Transformers.....	11	2	(²)	(²)	1	1
3616	Electrical control apparatus.....	25	8	2	2	3	3
3617	Electrical welding apparatus.....	4	(²)	(²)	(²)	(²)	(²)
3619	Electrical industrial apparatus, n.e.c.....	9	2	(²)	(²)	1	1
3621	Electrical appliances.....	25	4	(²)	2	1	1
3631	Insulated wire and cable.....	14	1	(²)	1	(²)	(²)
3641	Engine electrical equipment.....	13	3	(²)	2	(²)	1
3651	Electric lamps (bulbs).....	9	(²)	(²)	(²)	(²)	(²)
3661	Radios and related products.....	59	57	7	6	25	26
3662	Electronic tubes.....	30	5	1	2	2	1
3663	Phonograph records.....	5	(²)	(²)	(²)	(²)	(²)
3664	Telephone and telegraph equipment.....	11	14	(²)	2	(²)	12
3691	Storage batteries.....	18	2	(²)	1	1	(²)
3692	Primary batteries.....	6	(²)	(²)	(²)	(²)	(²)
3693	X-ray and therapeutic apparatus.....	3	(²)	(²)	(²)	(²)	(²)
3699	Electrical products, n.e.c.....	3	(²)	(²)	(²)	(²)	(²)
37	Transportation equipment.....	488	253	25	69	110	74
3713	Truck and bus bodies.....	4	(²)	(²)	(²)	(²)	(²)
3715	Truck trailers.....	6	(²)	(²)	(²)	(²)	(²)
3716	Automobile trailers.....	3	(²)	(²)	(²)	(²)	(²)
3717	Motor vehicles and parts.....	254	91	15	37	20	34
3721	Aircraft.....	40	34	3	4	23	7
3722	Aircraft engines.....	48	75	3	21	41	13
3723	Aircraft propellers.....	5	2	1	(²)	1	1
3729	Aircraft equipment, n.e.c.....	53	30	1	3	20	7
3731	Ship building and repairing.....	38	12	(²)	3	3	6
3741	Locomotives and parts.....	9	3	1	1	1	1
3742	Railroad and street cars.....	18	6	1	(²)	1	5
3751	Motorcycles and bicycles.....	8	(²)	(²)	(²)	(²)	(²)
38	Instruments and related products.....	93	19	8	7	8	4
3811	Scientific instruments.....	7	1	(²)	(²)	(²)	1
3821	Mechanical measuring instruments.....	31	3	(²)	1	1	1
3831	Optical instruments and lenses.....	3	(²)	(²)	(²)	(²)	(²)
3842	Surgical applicances and supplies.....	11	1	1	1	(²)	(²)
3851	Ophthalmic goods.....	6	4	(²)	(²)	4	(¹)
3861	Photographic equipment.....	24	10	7	5	3	2
3871	Watches and clocks.....	6	(²)	(²)	(²)	(²)	(²)
3872	Watchcases.....	3	(²)	(²)	(²)	(²)	(²)
39	Miscellaneous manufactures.....	291	59	14	21	16	22
3911	Jewelry (precious metal).....	4	1	(²)	(²)	(²)	1
3914	Silverware and plated ware.....	8	5	(²)	2	1	2
3941	Games and toys, n.e.c.....	13	2	(²)	1	(¹)	1
3949	Sporting and athletic goods.....	9	1	(²)	1	(²)	(²)
3951	Pens and mechanical pencils.....	3	1	(²)	(²)	1	(²)
3952	Lead pencils and crayons.....	3	(²)	(²)	(²)	(²)	(²)
3961	Costume jewelry.....	4	(²)	...	(²)	(²)	(²)
3964	Needles, pins, and fasteners.....	10	3	(²)	(²)	2	1
3971	Plastics products, n.e.c.....	89	15	4	5	5	5
3981	Brooms and brushes.....	4	1	(²)	1	(²)	(²)
3983	Matches.....	6	1	(²)	(²)	1	(²)
3992	Furs, dressed and dyed.....	3	(²)	...	(²)	(²)	(²)
3993	Signs and advertising displays.....	3	(²)	...	(²)	...	(²)
3999	Miscellaneous products, n.e.c.....	13	1	(²)	1	(²)	(²)
1900	Ordnance and accessories.....	104	23	8	7	6	10

NOTE: Detailed figures may not add to totals because of independent rounding.

¹Includes simple as well as complex treatment.²Less than 500 million gallons.

SOURCE OF WATER FOR INDUSTRY GROUP AND INDUSTRIES: 1954—Continued
 intake for 1954 was 20 million gallons or more)

Water discharged (billions of gallons)		Number of establishments recirculating or reusing water	Number of establishments treating water prior to recirculation or reuse	Water required if no water was recirculated or reused (billions of gallons)	Water intake, by kind of water (billions of gallons)					Code No.
Total	Treated prior to discharge				Fresh				Brackish (salt)	
					Total	From public water system	From company surface water system	From company ground water system		
2	(2)	6	3	2	2	2	(2)	(2)	(2)	3615
8	(2)	18	6	9	8	3	5	(2)	(2)	3616
(2)	(2)	2	1	(2)	(2)	(2)	...	(2)	...	3617
1	(2)	4	...	2	2	1	(2)	(2)	(2)	3619
4	1	19	4	4	4	3	(2)	1	(2)	3621
1	(2)	8	1	2	1	1	(2)	(2)	(2)	3631
3	(2)	9	3	4	3	1	1	1	(2)	3641
(2)	(2)	2	...	(2)	(2)	(2)	...	(2)	...	3651
21	2	30	4	68	57	44	12	1	(2)	3661
4	1	20	8	8	5	3	1	1	(2)	3662
(2)	(2)	4	1	1	(2)	(2)	...	(2)	(2)	3663
13	(2)	7	...	14	3	3	(2)	(2)	11	3664
2	1	11	1	2	2	2	(2)	(2)	(2)	3691
(2)	(2)	4	2	(2)	(2)	(2)	(2)	(2)	(2)	3692
(2)	(2)	2	...	(2)	(2)	(2)	(2)	(2)	(2)	3693
(2)	...	2	...	(2)	(2)	(2)	...	(2)	...	3699
219	9	309	80	353	244	162	57	25	9	37
(2)	...	...	...	(2)	(2)	(2)	...	...	...	3713
(2)	(2)	1	...	(2)	(2)	(2)	(2)	(2)	(2)	3715
(2)	...	1	...	(2)	(2)	(2)	...	(2)	...	3716
86	4	170	44	155	88	65	12	11	3	3717
14	2	35	12	50	33	29	...	4	1	3721
74	1	29	10	84	75	30	37	8	(2)	3722
2	1	4	2	6	2	1	...	1	...	3723
24	1	36	3	31	29	28	(2)	1	1	3729
11	(2)	8	2	13	8	5	3	(2)	4	3731
3	(2)	7	3	4	3	2	1	(2)	...	3741
5	(2)	15	4	9	6	2	4	(2)	(2)	3742
(2)	(2)	3	...	1	(2)	(2)	(2)	(2)	(2)	3751
18	(2)	62	15	54	19	5	10	4	(2)	38
1	(2)	5	1	1	1	1	...	(2)	...	3811
3	(2)	19	2	3	3	2	(2)	1	(2)	3821
(2)	...	2	1	1	(2)	(2)	...	...	...	3831
1	(2)	7	4	2	1	1	(2)	(2)	...	3842
4	(2)	4	2	5	4	(2)	4	(2)	...	3851
9	(2)	15	5	42	10	1	6	3	(2)	3861
(2)	(2)	6	...	(2)	(2)	(2)	(2)	(2)	...	3871
(2)	(2)	2	...	(2)	(2)	(2)	(2)	(2)	...	3872
55	6	173	33	94	54	25	14	15	5	39
1	(2)	3	...	1	1	1	(2)	(2)	(2)	3911
4	(2)	2	1	8	1	1	(2)	(2)	4	3914
2	(2)	5	...	2	2	1	(2)	1	(2)	3941
1	(2)	8	1	1	1	1	(2)	(2)	(2)	3949
1	...	2	1	1	1	1	...	(2)	...	3951
(2)	...	2	...	(2)	(2)	(2)	(2)	(2)	...	3952
(2)	...	1	...	(2)	(2)	(2)	...	(2)	...	3961
2	(2)	5	...	7	3	1	2	(2)	...	3964
14	1	49	11	19	14	6	4	4	1	3971
1	(2)	2	...	1	1	1	(2)	(2)	(2)	3981
1	...	4	1	1	1	(2)	1	(2)	...	3983
(2)	(2)	1	1	(2)	(2)	(2)	...	...	...	3992
(2)	...	...	...	(2)	(2)	(2)	...	...	...	3993
1	(2)	2	...	1	1	1	(2)	(2)	(2)	3999
21	5	77	15	44	23	9	6	8	...	1900

MANUFACTURES—SUMMARY STATISTICS

Table 5.—QUANTITY OF WATER USED, BY TYPE OF INDUSTRIAL USE AND KIND AND SOURCE

(Represents data for establishments whose gross water intake

Code	Water use region, industry group, and industry	Establishments, number	Employees, number	Water intake (billions of gallons)				
				All purposes		Process	Cooling and air conditioning	Boiler feed, sanitary service, and other uses
				Total	Treated prior to use ¹			
	United States, total.....	10,226	6,934,861	11,757	4,155	3,029	7,393	1,335
	CUMBERLAND REGION.....	26	12,643	16	7	5	6	5
28	Chemicals and products.....	9	8,277	14	7	4	6	4
	NFW ENGLAND REGION.....	845	529,051	578	194	278	198	102
20	Food and kindred products.....	88	18,177	21	9	4	13	4
22	Textile mill products.....	177	72,434	54	11	37	3	14
26	Pulp, paper and products.....	142	38,213	249	132	175	35	39
28	Chemicals and products.....	42	13,792	41	7	7	31	3
29	Petroleum and coal products.....	9	2,040	22	5	(2)	20	2
30	Rubber products.....	38	33,934	19	2	1	12	6
33	Primary metal industries.....	47	32,085	47	21	15	26	6
35	Machinery, except electrical.....	62	93,968	13	1	3	3	7
37	Transportation equipment.....	22	69,359	60	(2)	16	36	8
39	Miscellaneous manufactures.....	62	44,885	17	1	8	3	6
	Selected Industries							
2213	Woolen and worsted fabrics.....	46	14,468	20	4	15	1	4
2216	Finishing wool textiles.....	5	557	1	(2)	1	(2)	(2)
2261	Finishing textiles, except wool.....	49	16,253	19	6	14	2	3
2611	Pulp mills.....	25	6,078	95	49	63	15	17
2612	Paper and paperboard mills.....	102	24,906	147	80	108	18	21
3099	Rubber industries, n.e.c.....	31	18,390	12	(2)	1	8	3
3351	Copper rolling and drawing.....	17	15,561	25	13	8	14	3
3392	Wire drawing.....	17	9,238	15	5	3	9	2
3722	Aircraft engines.....	8	40,849	60	...	16	36	8
	DELAWARE AND HUDSON REGION.....	1,286	925,356	1,092	412	185	718	189
20	Food and kindred products.....	252	99,816	67	13	13	34	20
22	Textile mill products.....	149	53,929	34	14	18	11	5
26	Pulp, paper and products.....	116	26,243	93	54	65	18	10
28	Chemicals and products.....	212	99,477	237	97	29	182	26
29	Petroleum and coal products.....	29	27,976	261	43	3	213	45
32	Stone, clay, and glass products.....	63	28,168	43	4	12	22	9
33	Primary metal industries.....	97	85,305	252	168	18	205	29
35	Machinery, except electrical.....	52	74,937	12	4	3	3	6
36	Electrical machinery.....	66	109,243	40	5	6	10	24
37	Transportation equipment.....	47	142,085	16	1	3	8	5
39	Miscellaneous manufactures.....	47	52,810	12	5	5	4	3
	Selected Industries							
2062	Cane-sugar refining.....	6	6,185	18	1	1	9	8
2261	Finishing textiles, except wool.....	67	13,443	14	7	11	1	2
2611	Pulp mills.....	8	972	17	7	11	6	(2)
2612	Paper and paperboard mills.....	80	14,379	66	44	50	7	9
2819	Inorganic chemicals, n.e.c.....	25	5,174	22	4	2	18	2
2822	Intermediates and organic colors.....	15	8,724	22	7	1	8	13
2823	Plastics materials.....	17	10,937	17	12	1	15	1
2825	Synthetic fibers.....	4	4,436	17	5	1	16	(2)
2829	Organic chemicals, n.e.c.....	26	14,114	55	42	4	49	2
2834	Pharmaceutical preparations.....	16	21,285	17	6	2	13	2
2852	Inorganic color pigments.....	14	5,711	29	10	11	17	1
2896	Compressed and liquefied gases.....	8	559	11	(2)	(2)	11	(2)
2911	Petroleum refining.....	13	22,550	248	39	2	202	44
3241	Cement, hydraulic.....	19	5,308	25	2	2	18	5
3311	Blast furnaces.....	6	1,540	43	21	3	32	8
3312	Steel works and rolling mills.....	14	39,678	153	133	8	128	17
3331	Primary copper.....	6	5,169	25	8	1	23	1
3661	Radios and related products.....	13	35,017	14	3	2	2	10
	CHESAPEAKE BAY REGION.....	492	345,090	551	251	148	345	58
20	Food and kindred products.....	148	36,316	33	6	6	21	6
26	Pulp, paper and products.....	50	13,568	109	35	67	30	12
28	Chemicals and products.....	65	29,698	144	37	19	100	25
29	Petroleum and coal products.....	9	3,422	60	24	3	56	1
32	Stone, clay, and glass products.....	25	15,751	14	3	3	10	1
33	Primary metal industries.....	33	47,604	157	137	33	118	6
	Selected Industries							
2611	Pulp mills.....	14	4,355	62	19	37	19	6
2612	Paper and paperboard mills.....	31	8,417	44	15	28	10	6
2819	Inorganic chemicals, n.e.c.....	4	3,663	63	4	8	53	2
2825	Synthetic fibers.....	7	12,446	32	15	5	13	14
2911	Petroleum refining.....	3	1,755	36	1	(2)	35	1
3311	Blast furnaces.....	3	1,675	66	65	5	61	(2)
3312	Steel works and rolling mills.....	13	36,039	87	71	27	55	5

See footnotes at end of table.

OF WATER, FOR WATER USE REGIONS AND SELECTED INDUSTRIES: 1954
for 1954 was 20 million gallons or more)

Water discharged (billions of gallons)		Number of es- tablishments recirculating or reusing water	Number of es- tablishments treating water prior to recircula- tion or reuse	Water required if no water was recirculated or reused (billions of gallons)	Water intake, by kind of water (billions of gallons)					Code
Total	Treated prior to discharge ¹				Fresh				Brackish (salt)	
					Total	From public water system	From company surface water system	From company ground water system		
10,677	1,373	6,770	1,310	21,906	10,135	1,663	6,899	1,573	1,622	
16	12	18	6	38	16	1	15	(²)	(²)	
14	12	5	3	32	14	(²)	14	...	...	28
505	27	571	68	877	504	98	374	32	74	
19	(²)	56	5	26	10	7	1	2	11	20
36	5	98	6	57	54	9	41	4	...	22
221	13	119	14	487	247	13	225	9	2	26
36	4	26	3	50	20	6	8	6	21	28
21	(²)	6	...	24	2	1	1	(²)	20	29
18	(²)	36	4	25	15	4	9	2	4	30
40	3	39	5	51	43	8	34	1	4	33
10	(²)	40	2	15	11	7	4	(²)	2	35
57	(²)	14	3	78	58	14	40	4	2	37
15	1	33	6	25	12	10	2	(²)	5	39
18	1	23	...	23	20	1	18	1	(²)	2213
(²)	(²)	4	1	1	1	(²)	1	(²)	(²)	2216
16	3	30	2	19	19	2	16	1	(²)	2261
87	(²)	16	3	181	95	2	91	2	(²)	2611
129	12	85	10	220	145	10	130	7	2	2612
11	(²)	21	3	14	9	3	5	1	3	3099
21	1	13	1	27	25	5	20	(²)	(²)	3351
13	1	15	2	16	14	2	12	(²)	1	3392
57	(²)	6	...	74	58	14	40	4	(²)	3722
1,029	274	845	170	1,969	789	132	580	77	303	
61	4	171	23	368	45	24	8	13	22	20
29	3	59	10	34	32	8	22	2	2	22
85	20	98	22	255	89	6	74	9	4	26
224	70	150	28	333	144	26	91	27	93	28
250	113	22	9	483	128	6	119	3	133	29
39	3	40	11	68	35	2	30	3	8	32
240	54	72	17	285	224	22	194	8	28	33
15	(²)	34	7	21	12	4	7	1	(²)	35
37	1	50	13	40	29	10	18	1	11	36
16	1	29	8	24	14	6	4	4	2	37
12	3	30	5	22	12	2	7	3	(²)	39
17	...	6	...	19	6	2	4	...	12	2062
11	1	24	2	14	13	4	8	1	1	2261
17	(²)	7	2	27	17	(²)	17	(²)	(²)	2611
58	17	71	16	202	65	5	53	7	1	2612
19	2	16	2	32	7	2	3	2	15	2819
21	6	11	2	35	21	11	9	1	1	2822
17	1	16	5	26	17	2	13	2	(²)	2823
17	(²)	4	...	27	17	(²)	16	1	...	2825
53	27	18	1	65	17	4	6	7	38	2829
15	4	12	5	29	15	2	8	5	2	2834
28	24	9	3	40	15	4	9	2	14	2852
11	(²)	7	2	12	11	(²)	11	(²)	(²)	2896
239	112	12	8	465	116	4	111	1	132	2911
23	(²)	11	2	40	25	(²)	25	(²)	...	3241
41	8	5	1	47	43	4	39	(²)	(²)	3311
146	45	14	2	172	153	3	144	6	...	3312
25	1	5	2	30	1	1	...	...	24	3331
11	(²)	8	3	14	14	5	9	(²)	...	3661
519	68	313	57	873	371	79	222	70	180	
31	1	85	3	50	28	10	8	10	5	20
101	21	45	11	225	104	18	64	22	5	26
139	32	39	10	264	129	7	110	12	15	28
57	1	4	2	61	5	4	(²)	1	55	29
13	1	14	1	28	14	2	10	2	(²)	32
145	8	27	2	184	57	23	25	9	100	33
61	11	14	5	127	60	13	37	10	2	2611
37	9	26	6	87	41	5	25	11	3	2612
60	1	3	...	81	60	3	55	2	3	2819
32	15	6	3	107	32	(²)	28	4	(²)	2825
35	(²)	3	2	37	1	1	(²)	(²)	35	2911
60	3	3	...	70	7	2	5	(²)	59	3311
81	4	12	2	107	46	19	18	9	41	3312

Table 5.—QUANTITY OF WATER USED, BY TYPE OF INDUSTRIAL USE AND KIND AND SOURCE

(Represents data for establishments whose gross water intake

Code	Water use region, industry group, and industry	Establishments, number	Employees, number	Water intake (billions of gallons)				
				All purposes		Process	Cooling and air conditioning	Boiler feed, sanitary service, and other uses
				Total	Treated prior to use ¹			
	EASTERN GREAT LAKES-ST. LAWRENCE REGION.....	1,108	1,017,301	1,435	574	326	939	170
20	Food and kindred products.....	201	35,351	23	130	7	9	7
26	Pulp, paper and products.....	90	20,002	110	69	87	14	9
28	Chemicals and products.....	114	47,476	352	65	31	303	18
29	Petroleum and coal products.....	35	11,839	107	24	23	75	9
30	Rubber products.....	33	57,514	54	17	5	30	19
32	Stone, clay, and glass products.....	50	24,406	33	8	10	17	6
33	Primary metal industries.....	133	131,765	590	213	118	446	26
34	Fabricated metal products.....	93	56,442	50	30	15	4	31
35	Machinery, except electrical.....	75	95,968	11	1	3	2	6
37	Transportation equipment.....	138	367,677	76	8	19	29	28
	Selected Industries							
2611	Pulp mills.....	18	1,844	24	23	22	1	1
2612	Paper and paperboard mills.....	59	11,777	70	39	57	8	5
2812	Alkalies and chlorine.....	6	10,475	159	5	19	134	5
2819	Inorganic chemicals, n.e.c.....	12	5,223	48	29	2	45	1
2822	Intermediates and organic colors.....	3	2,096	11	4	1	9	1
2825	Synthetic fibers.....	3	3,229	14	4	3	8	3
2829	Organic chemicals, n.e.c.....	10	4,858	26	12	1	26	1
2896	Compressed and liquefied gases.....	7	206	50	(²)	(²)	48	2
2911	Petroleum refining.....	13	5,732	49	9	3	39	7
2932	Byproduct coke ovens.....	14	5,235	57	15	19	36	2
3011	Tires and inner tubes.....	7	36,869	43	15	3	22	18
3099	Rubber industries, n.e.c.....	21	19,444	11	2	2	8	1
3311	Blast furnaces.....	13	6,220	218	111	52	158	8
3312	Steel works and rolling mills.....	20	61,213	268	89	47	209	12
3313	Electrometallurgical products.....	4	3,870	63	(²)	(²)	62	1
3321	Gray-iron foundries.....	13	17,943	13	(²)	8	4	1
3443	Boiler shop products.....	3	7,440	37	28	9	(²)440	28
3717	Motor vehicles and parts.....	99	293,785	44	6	17	8	19
3729	Aircraft equipment, n.e.c.....	15	32,600	28	1	1	19	8
	OHIO REGION.....	1,252	1,024,104	2,058	950	379	1,534	145
20	Food and kindred products.....	239	61,757	46	14	11	20	15
26	Pulp, paper and products.....	62	18,137	54	28	35	14	5
28	Chemicals and products.....	134	66,835	495	167	34	432	29
29	Petroleum and coal products.....	56	19,899	153	41	18	126	9
32	Stone, clay, and glass products.....	97	60,474	25	8	7	9	9
33	Primary metal industries.....	219	283,253	1,185	671	237	902	46
34	Fabricated metal products.....	101	69,964	18	3	7	5	6
35	Machinery, except electrical.....	84	132,712	26	4	11	7	8
36	Electrical machinery.....	61	110,672	16	5	8	3	5
37	Transportation equipment.....	64	120,299	18	5	6	7	5
	Selected Industries							
2612	Paper and paperboard mills.....	41	12,351	34	19	25	6	3
2812	Alkalies and chlorine.....	3	2,313	62	(²)	(²)	60	2
2819	Inorganic chemicals, n.e.c.....	12	3,364	65	33	11	50	4
2822	Intermediates and organic colors.....	11	4,259	28	4	1	25	1
2825	Synthetic fibers.....	5	6,092	24	9	4	14	6
2826	Explosives.....	5	9,467	12	8	8	(²)	4
2829	Organic chemicals, n.e.c.....	16	14,691	248	76	5	234	9
2911	Petroleum refining.....	26	7,092	51	8	3	44	4
2932	Byproduct coke ovens.....	23	11,120	91	31	13	74	4
3311	Blast furnaces.....	29	12,923	349	235	29	313	7
3312	Steel works and rolling mills.....	78	199,707	685	365	197	456	32
3313	Electrometallurgical products.....	4	3,382	104	55	1	102	1
3585	Refrigeration machinery.....	11	38,560	11	1	5	3	3
	TENNESSEE REGION.....	168	90,229	228	70	57	154	17
26	Pulp, paper and products.....	17	7,241	37	33	34	1	2
28	Chemicals and products.....	29	23,965	152	27	13	132	7
33	Primary metal industries.....	14	13,061	16	4	2	11	3
	Selected Industries							
2611	Pulp mills.....	8	2,384	18	15	16	1	1
2612	Paper and paperboard mills.....	9	4,857	19	18	18	(²)	1
2819	Inorganic chemicals, n.e.c.....	6	1,839	17	1	(²)	16	1
2825	Synthetic fibers.....	6	12,254	40	12	9	30	1
2829	Organic chemicals, n.e.c.....	4	2,670	46	3	1	44	1
	SOUTHEAST REGION.....	869	483,669	746	230	329	295	122
20	Food and kindred products.....	201	33,472	40	6	13	19	8
22	Textile mill products.....	311	262,719	162	39	121	9	32

See footnotes at end of table.

OF WATER, FOR WATER USE REGIONS AND SELECTED INDUSTRIES: 1954—Continued
for 1954 was 20 million gallons or more)

Water discharged (billions of gallons)		Number of es- tablishments recirculating or reusing water	Number of es- tablishments treating water prior to recircula- tion or reuse	Water required if no water was recirculated or reused (billions of gallons)	Water intake, by kind of water (billions of gallons)					Code
Total	Treated prior to discharge ¹				Fresh				Brackish (salt)	
					Total	From public water system	From company surface water system	From company ground water system		
1,384	148	712	125	2,189	1,424	341	1,052	31	11	
20	1	135	14	32	21	11	5	5	2	20
103	27	78	18	223	109	14	90	5	1	26
344	17	68	19	580	349	67	274	8	3	28
99	13	24	10	212	105	5	97	3	2	29
55	(²)	18	4	56	54	28	23	3	(²)	30
30	1	32	6	191	32	6	26	...	1	32
581	85	89	19	656	589	73	515	1	1	33
45	1	42	4	50	50	47	2	1	(²)	34
10	(²)	50	10	34	11	8	2	1	(²)	35
69	3	87	8	92	76	68	6	2	(²)	37
24	11	18	3	56	24	3	21	(²)	(²)	2611
65	16	52	10	140	70	9	56	5	(²)	2612
155	...	4	...	189	158	3	156	(²)	(²)	2812
46	1	5	1	49	46	4	37	5	2	2819
10	10	2	1	11	11	1	9	1	...	2822
14	1	2	1	19	14	1	13	(²)	...	2825
27	1	8	2	28	28	2	24	2	(²)	2829
50	...	3	...	183	50	46	4	...	...	2896
44	13	11	6	140	47	4	40	3	2	2911
55	(²)	10	2	70	57	1	56	(²)	...	2932
43	(²)	5	1	62	43	21	21	1	...	3011
9	(²)	11	1	12	11	7	2	2	(²)	3099
216	78	9	3	231	218	20	198	(²)	(²)	3311
263	3	15	2	288	267	19	248	(²)	1	3312
63	2	4	1	86	63	15	48	(²)	...	3313
13	(²)	7	1	16	13	2	11	...	...	3321
37	...	2	...	38	37	37	(²)	...	(²)	3443
42	2	68	16	68	44	36	6	2	...	3717
15	...	9	...	28	28	28	...	...	(²)	3729
1,953	143	802	173	2,962	2,044	174	1,701	169	14	
46	2	159	18	68	45	20	4	21	1	20
50	9	56	17	148	54	4	27	23	(²)	26
463	43	84	27	733	494	9	440	45	1	28
139	23	43	16	291	146	4	126	16	7	29
22	1	64	14	63	25	5	16	4	(²)	32
1,147	58	136	20	1,458	1,183	86	1,067	30	2	33
20	1	50	6	84	18	12	1	5	(²)	34
15	1	52	14	33	26	9	4	13	(²)	35
15	2	36	8	23	16	7	6	3	(²)	36
16	2	42	15	28	16	9	2	5	2	37
31	6	40	13	118	34	1	14	19	(²)	2612
62	...	...	...	62	62	(²)	60	2	...	2812
61	9	9	2	119	65	1	57	7	...	2819
27	3	7	1	32	27	1	23	3	1	2822
24	5	5	2	74	24	(²)	18	6	...	2825
9	3	4	1	15	12	(²)	11	1	...	2826
245	1	11	5	297	248	2	235	11	...	2829
42	15	22	9	141	48	1	37	10	3	2911
87	5	16	7	119	91	2	84	5	...	2932
332	20	22	6	457	349	2	339	8	(²)	3311
664	34	48	8	834	685	15	656	14	...	3312
102	...	2	...	105	104	54	49	1	...	3313
10	(²)	8	4	12	11	4	...	7	...	3585
212	43	120	17	338	225	22	188	15	3	
35	7	16	1	82	37	2	34	1	(²)	26
142	32	23	6	193	150	2	138	10	2	28
15	2	10	3	28	15	7	8	(²)	1	33
17	1	7	1	34	18	2	16	(²)	(²)	2611
18	6	9	...	48	19	(²)	18	1	(²)	2612
12	(²)	4	1	24	17	(²)	17	(²)	(²)	2819
40	21	6	1	56	40	(²)	36	4	(²)	2825
46	(²)	3	2	48	46	(²)	46	(²)	(²)	2829
621	59	587	73	1,624	631	94	272	265	116	
36	4	133	14	65	38	7	4	27	2	20
141	3	201	24	189	162	22	35	105	(²)	22

Table 5.—QUANTITY OF WATER USED, BY TYPE OF INDUSTRIAL USE AND KIND AND SOURCE

(Represents data for establishments whose gross water intake

Code	Water use region, industry group, and industry	Establishments, number	Employees, number	Water intake (billions of gallons)				
				All purposes		Process	Cooling and air condi- tioning	Boiler feed, sanitary service, and other uses
				Total	Treated prior to use ¹			
SOUTHEAST REGION--Continued								
26	Pulp, paper and products.....	80	33,544	329	147	169	127	33
28	Chemicals and products.....	94	26,306	102	34	11	83	8
29	Petroleum and coal products.....	12	2,807	19	(²)	3	10	6
33	Primary metal industries.....	32	30,622	68	1	5	36	27
Selected Industries								
2037	Frozen fruits and vegetables.....	17	4,153	16	1	6	8	2
2233	Cotton broad-woven fabrics.....	135	155,807	123	15	92	5	26
2261	Finishing textiles, except wool.....	48	24,999	24	18	19	2	2
2611	Pulp mills.....	37	15,346	213	95	111	82	20
2612	Paper and paperboard mills.....	30	12,078	113	52	54	44	11
2825	Synthetic fibers.....	8	13,850	49	20	4	41	4
2862	Softwood distillation.....	10	3,247	22	12	1	19	2
2871	Fertilizers.....	27	3,906	19	1	4	13	2
2932	Byproduct coke ovens.....	7	2,273	13	(²)	3	8	2
3311	Blast furnaces.....	9	3,617	25	1	2	17	6
3312	Steel works and rolling mills.....	9	18,253	37	(²)	1	15	21
WESTERN GREAT LAKES REGION.....		1,206	932,042	1,539	242	502	902	135
20	Food and kindred products.....	267	94,317	69	15	19	32	18
26	Pulp, paper and products.....	104	27,327	142	67	93	26	23
28	Chemicals and products.....	101	42,055	167	55	14	140	13
29	Petroleum and coal products.....	35	20,439	185	20	47	131	7
32	Stone, clay, and glass products.....	28	11,492	61	9	3	54	4
33	Primary metal industries.....	134	139,444	780	63	284	475	21
34	Fabricated metal products.....	130	67,658	12	2	7	2	3
35	Machinery, except electrical.....	119	135,856	24	2	9	5	10
36	Electrical machinery.....	55	91,872	42	1	4	22	16
37	Transportation equipment.....	80	190,829	34	6	15	5	14
Selected Industries								
2011	Meat packing plants.....	26	20,560	11	5	6	2	3
2611	Pulp mills.....	20	2,717	31	19	27	3	1
2612	Paper and paperboard mills.....	58	15,112	87	45	54	22	11
2819	Inorganic chemicals, n.e.c.....	12	3,705	19	5	1	17	1
2822	Intermediates and organic colors.....	4	7,925	64	33	1	61	2
2826	Explosives.....	3	3,032	12	1	(²)	11	1
2829	Organic chemicals, n.e.c.....	6	2,403	22	2	(²)	21	1
2898	Salt.....	3	719	12	(²)	(²)	5	7
2911	Petroleum refining.....	20	13,169	136	16	31	102	3
2932	Byproduct coke ovens.....	8	4,975	44	4	15	26	3
3241	Cement, hydraulic.....	6	3,063	58	5	1	55	2
3311	Blast furnaces.....	9	6,819	121	19	26	92	3
3312	Steel works and rolling mills.....	16	72,705	617	34	246	362	9
3661	Radios and related products.....	15	23,340	36	(²)	(²)	21	15
3717	Motor vehicles and parts.....	52	141,191	25	5	12	4	9
UPPER MISSISSIPPI REGION.....		810	458,730	540	158	182	277	81
20	Food and kindred products.....	327	96,098	86	34	19	44	23
26	Pulp, paper and products.....	66	22,344	114	73	87	19	8
28	Chemicals and products.....	81	27,038	38	13	8	26	4
29	Petroleum and coal products.....	14	8,034	24	7	2	19	3
32	Stone, clay, and glass products.....	37	18,732	50	5	7	32	11
33	Primary metal industries.....	46	30,260	100	17	37	51	12
34	Fabricated metal products.....	49	24,743	82	1	3	70	9
35	Machinery, except electrical.....	64	91,366	26	3	9	10	7
Selected Industries								
2011	Meat packing plants.....	37	48,717	29	15	9	13	7
2094	Corn wet milling.....	8	7,321	18	5	2	14	2
2611	Pulp mills.....	23	3,953	54	37	47	5	2
2612	Paper and paperboard products.....	32	10,462	54	35	40	9	6
2911	Petroleum refining.....	9	6,828	19	5	1	15	3
3241	Cement, hydraulic.....	12	4,080	35	(²)	1	25	9
3312	Steel works and rolling mills.....	7	10,881	64	6	33	21	10
3521	Tractors.....	10	36,396	14	2	7	3	4
LOWER MISSISSIPPI REGION.....		210	79,256	324	51	50	249	25
20	Food and kindred products.....	95	13,909	41	5	5	32	4
26	Pulp, paper and products.....	10	5,946	31	22	29	1	1
28	Chemicals and products.....	41	12,738	41	18	8	29	4
29	Petroleum and coal products.....	13	8,919	67	3	5	58	4
33	Primary metal industries.....	3	3,300	136	(²)	...	127	9

See footnotes at end of table.

INDUSTRIAL WATER USE

209-37

OF WATER, FOR WATER USE REGIONS AND SELECTED INDUSTRIES: 1954—Continued
for 1954 was 20 million gallons or more)

Water discharged (billions of gallons)		Number of es- tablishments recirculating or reusing water	Number of es- tablishments treating water prior to recircula- tion or reuse	Water required if no water was recirculated or reused (billions of gallons)	Water intake, by kind of water (billions of gallons)					Code
Total	Treated prior to discharge ¹				Fresh				Brackish (salt)	
					Total	From public water system	From company surface water system	From company ground water system		
256	31	72	5	899	235	33	113	89	94	26
93	19	64	5	147	93	3	52	38	9	28
16	...	12	4	31	18	6	11	1	1	29
60	1	27	2	245	64	15	48	1	4	33
15	4	14	2	23	16	1	2	13	(²)	2037
109	(²)	89	13	140	122	8	12	102	1	2233
21	3	27	1	24	24	4	18	1	(²)	2261
181	21	35	(²)	482	148	20	70	58	64	2611
97	9	29	5	299	83	13	38	31	30	2612
45	13	7	3	65	49	...	43	6	...	2825
21	2	9	...	37	22	(²)	5	17	...	2862
16	4	17	2	23	11	(²)	1	10	8	2871
11	...	7	3	25	13	2	11	(²)	(²)	2932
19	1	7	...	89	21	3	18	(²)	4	3311
35	(²)	8	...	130	37	7	29	1	...	3312
1,462	157	718	147	2,063	1,521	204	1,256	61	18	
62	3	165	17	90	68	30	20	18	1	20
137	31	85	28	270	135	7	111	17	7	26
159	28	63	21	257	163	12	141	10	4	28
179	52	20	7	309	183	32	149	2	2	29
60	2	18	5	67	61	1	60	(²)	(²)	32
771	36	80	8	898	778	17	758	3	2	33
11	1	61	11	17	12	10	(²)	2	(²)	34
22	1	67	18	24	23	18	3	2	1	35
7	1	31	6	51	42	42	(²)	(²)	(²)	36
32	1	45	12	52	33	23	5	5	1	37
9	1	15	1	13	11	10	(²)	1	(²)	2011
25	8	17	5	68	31	...	28	2	(²)	2611
80	22	52	19	165	80	3	64	13	7	2612
19	(²)	7	2	24	19	1	16	2	(²)	2819
62	23	4	2	86	63	3	59	1	1	2822
1	...	1	...	12	12	...	11	1	...	2826
21	...	3	1	22	21	1	20	(²)	1	2829
3	...	2	...	12	12	(²)	12	(²)	(²)	2898
132	50	11	5	220	135	30	104	1	1	2911
37	1	6	2	52	44	(²)	43	1	...	2932
56	1	5	2	58	58	(²)	58	(²)	...	3241
121	4	7	1	123	121	(²)	121	(²)	...	3311
614	29	12	2	689	617	5	611	1	(²)	3312
1	(²)	5	...	47	36	36	(²)	(²)	(²)	3661
24	1	30	12	28	25	16	4	5	(²)	3717
489	45	544	120	1,021	533	136	284	113	7	
69	6	219	43	224	85	20	22	43	1	20
111	10	62	15	228	113	5	98	10	1	26
35	4	56	14	80	37	7	13	17	1	28
18	4	11	5	139	22	1	12	9	2	29
47	18	21	7	67	50	1	45	4	(²)	32
89	2	27	7	134	98	3	76	19	2	33
81	(²)	29	6	83	82	80	(²)	2	(²)	34
23	1	41	5	29	26	6	17	3	(²)	35
22	2	27	7	44	29	6	5	18	(²)	2011
16	(²)	6	2	26	18	(²)	14	4	(²)	2094
50	2	23	4	98	54	1	53	(²)	(²)	2611
49	7	30	10	117	54	3	44	7	1	2612
15	3	7	4	126	18	1	10	7	1	2911
34	18	7	1	42	35	(²)	33	2	...	3241
57	(²)	4	1	116	64	1	52	11	...	3312
14	1	7	2	16	14	2	10	2	(²)	3521
310	19	139	25	685	313	7	240	66	11	
37	5	61	9	49	35	4	24	7	6	20
31	4	10	2	75	31	(²)	8	23	(²)	26
37	9	28	8	169	39	1	18	20	2	28
64	1	10	2	238	65	1	54	10	2	29
135	...	1	...	136	136	(²)	136	...	...	33

Table 5.—QUANTITY OF WATER USED, BY TYPE OF INDUSTRIAL USE AND KIND AND SOURCE

(Represents data for establishments whose gross water intake

Code	Water use region, industry group, and industry	Establish- ments, number	Employees, number	Water intake (billions of gallons)				
				All purposes		Process	Cooling and air condi- tioning	Boiler feed, sanitary service, and other uses
				Total	Treated prior to use ¹			
LOWER MISSISSIPPI REGION--Continued								
Selected Industries								
2061	Raw cane sugar.....	26	1,749	18	2	3	14	1
2062	Cane-sugar refining.....	6	2,873	13	1	1	12	(²)
2611	Pulp mills.....	5	2,295	21	20	20	(²)	1
2613	Building paper and board mills.....	4	3,407	8	(²)	7	1	(²)
2819	Inorganic chemicals, n.e.c.....	8	4,190	21	5	6	13	2
2829	Organic chemicals, n.e.c.....	5	4,647	11	10	1	10	(²)
2911	Petroleum refining.....	8	8,010	66	3	5	57	4
MISSOURI REGION.....		262	127,277	571	430	126	387	58
20	Food and kindred products.....	154	47,555	60	21	18	30	12
28	Chemicals and products.....	26	8,767	443	396	83	324	36
29	Petroleum and coal products.....	23	5,784	28	7	10	14	4
33	Primary metal industries.....	9	6,878	18	1	3	14	1
Selected Industries								
2011	Meat packing plants.....	41	30,188	18	5	8	4	6
2013	Prepared meats.....	5	750	15	12	(²)	14	1
2063	Beet sugar.....	26	3,754	14	1	8	5	1
2911	Petroleum refining.....	23	5,784	28	7	10	14	4
ARKANSAS, WHITE AND RED REGION.....		289	144,630	177	76	69	77	31
20	Food and kindred products.....	89	14,108	12	3	4	6	2
26	Pulp, paper and products.....	22	11,105	56	29	40	12	4
28	Chemicals and products.....	40	9,767	37	8	4	27	6
29	Petroleum and coal products.....	50	14,202	34	17	4	21	9
33	Primary metal industries.....	15	13,053	26	16	14	8	4
Selected Industries								
2611	Pulp mills.....	7	3,984	37	20	25	11	1
2612	Paper and paperboard mills.....	10	4,937	18	9	15	1	2
2819	Inorganic chemicals, n.e.c.....	8	5,307	25	5	1	19	5
2911	Petroleum refining.....	46	13,517	28	16	3	17	8
3312	Steel works and rolling mills.....	3	7,249	19	14	13	4	2
WESTERN GULF REGION.....		317	179,824	1,112	274	79	976	57
20	Food and kindred products.....	90	19,578	13	5	4	4	5
26	Pulp, paper and products.....	11	3,576	29	8	21	3	5
28	Chemicals and products.....	75	27,215	471	178	19	437	15
29	Petroleum and coal products.....	51	40,516	383	73	19	339	25
33	Primary metal industries.....	15	13,109	190	8	15	172	3
37	Transportation equipment.....	11	47,829	20	1	(²)	18	2
Selected Industries								
2611	Pulp mills.....	3	1,272	16	5	14	1	1
2612	Paper and paperboard mills.....	4	2,112	12	3	7	2	3
2819	Inorganic chemicals, n.e.c.....	12	3,169	66	3	3	62	1
2829	Organic chemicals, n.e.c.....	13	13,077	235	63	10	218	7
2911	Petroleum refining.....	47	39,888	385	73	21	339	25
3334	Primary aluminum.....	3	3,898	108	1	(²)	107	1
3721	Aircraft.....	4	40,219	19	1	(²)	18	1
COLORADO REGION.....		37	15,739	16	4	5	8	3
GREAT BASIN REGION.....		56	13,386	34	14	7	22	5
33	Primary metal industries.....	8	6,664	17	12	4	10	3
CALIFORNIA REGION.....		592	423,529	329	54	92	193	44
20	Food and kindred products.....	248	60,254	47	13	17	20	10
24	Lumber and wood products.....	54	15,164	24	1	3	10	11
26	Pulp, paper and products.....	28	4,984	17	10	14	2	1
28	Chemicals and products.....	62	11,450	42	7	22	18	2
29	Petroleum and coal products.....	29	17,500	162	14	22	129	11
33	Primary metal industries.....	26	19,288	11	4	2	7	2
Selected Industries								
2033	Canned fruits and vegetables.....	63	19,071	12	4	5	4	3
2421	Sawmills and planing mills.....	40	11,697	18	1	3	9	6
2898	Salt.....	4	604	19	...	19	...	...
2911	Petroleum refining.....	22	16,571	158	13	21	126	11

See footnotes at end of table.

INDUSTRIAL WATER USE

209-39

OF WATER, FOR WATER USE REGIONS AND SELECTED INDUSTRIES: 1954—Continued
for 1954 was 20 million gallons or more)

Water discharged (billions of gallons)		Number of es- tablishments recirculating or reusing water	Number of es- tablishments treating water prior to recircula- tion or reuse	Water required if no water was recirculated or reused (billions of gallons)	Water intake, by kind of water (billions of gallons)					Code
Total	Treated prior to discharge ¹				Fresh				Brackish (salt)	
					Total	From public water system	From company surface water system	From company ground water system		
10	4	17	3	20	17	2	13	2	1	2061
12	(2)	3	1	13	9	(2)	9	...	4	2062
21	4	5	1	57	21	(2)	1	20	(2)	2611
8	...	4	...	15	8	(2)	7	1	(2)	2613
18	1	8	4	74	21	1	10	10	(2)	2819
11	6	4	2	53	11	(2)	5	6	(2)	2829
63	1	7	2	235	64	(2)	54	10	2	2911
470	14	186	48	1,210	567	83	64	420	4	
57	3	114	20	92	59	30	13	16	1	20
352	1	12	5	944	443	46	4	393	(2)	28
22	7	20	13	108	25	2	18	5	3	29
17	(2)	5	...	19	18	2	16	...	...	33
17	1	31	15	32	18	9	2	7	(2)	2011
15	(2)	3	...	17	15	15	(2)	(2)	(2)	2013
14	2	23	1	20	14	2	10	2	(2)	2063
22	7	20	13	102	25	2	18	5	3	2911
115	13	225	55	1,077	161	26	85	50	16	
11	1	62	11	19	12	6	1	5	...	20
41	1	20	4	210	45	1	22	22	11	26
29	2	30	7	187	36	1	24	11	1	28
16	5	48	23	593	32	8	14	10	2	29
9	3	12	1	48	25	3	22	...	1	33
26	...	7	1	116	27	...	16	11	10	2611
14	1	10	2	92	18	1	5	11	...	2612
19	...	8	3	162	25	...	21	4	...	2819
11	5	45	23	585	27	8	9	10	1	2911
5	1	3	1	31	19	1	18	...	...	3312
909	218	247	67	2,989	476	85	301	90	636	
11	2	65	10	36	13	6	3	4	(2)	20
24	14	10	1	213	28	6	7	15	1	26
439	54	61	21	907	147	16	101	30	324	28
357	148	47	20	1,494	142	36	74	32	241	29
72	(2)	12	3	271	121	1	115	5	69	33
2	(2)	8	3	31	20	19	...	1	...	37
14	11	3	...	168	16	5	...	11	...	2611
10	3	3	1	32	11	1	7	4	(2)	2612
65	(2)	11	3	108	66	1	53	12	(2)	2819
213	51	10	5	491	50	11	33	6	185	2829
356	146	45	19	1,480	143	31	84	28	241	2911
(2)	(2)	3	1	161	108	(2)	107	1	(2)	3334
1	(2)	4	2	28	19	18	...	1	(2)	3731
10	1	28	9	53	15	5	8	2	1	
23	13	33	6	144	28	9	11	8	6	
16	11	8	3	87	17	6	5	6	...	33
268	102	414	105	828	150	48	47	55	179	
42	4	170	31	82	40	13	2	25	7	20
17	...	29	4	29	21	5	13	3	3	24
13	2	24	5	47	17	1	10	6	...	26
22	3	51	18	86	16	4	8	4	26	28
141	89	27	13	473	26	10	7	9	136	29
9	3	22	8	61	10	3	5	2	1	33
10	1	47	6	18	11	4	1	6	1	2033
13	...	21	4	22	16	1	12	3	2	2421
...	...	3	...	19	...	...	...	...	19	2898
138	88	21	11	437	23	11	4	8	135	2911

MANUFACTURES—SUMMARY STATISTICS

Table 5.—QUANTITY OF WATER USED, BY TYPE OF INDUSTRIAL USE AND KIND AND SOURCE
(Represents data for establishments whose gross water intake

Code	Water use region, industry group, and industry	Establish- ments, number	Employees, number	Water intake (billions of gallons)				
				All purposes		Process	Cooling and air condi- tioning	Boiler feed, sanitary service, and other uses
				Total	Treated prior to use ¹			
	PACIFIC NORTHWEST REGION.....	401	133,005	411	164	210	113	88
20	Food and kindred products.....	137	19,378	23	5	8	6	9
24	Lumber and wood products.....	120	36,936	88	4	13	38	37
26	Pulp, paper and products.....	60	17,112	224	134	180	22	22
28	Chemicals and products.....	25	3,010	27	8	2	24	1
33	Primary metal industries.....	25	15,905	38	13	4	20	14
	Selected Industries							
2421	Sawmills and planing mills.....	75	25,390	71	3	4	33	34
2611	Pulp mills.....	31	8,671	151	93	122	14	15
2612	Paper and paperboard mills.....	23	7,587	70	40	56	8	6
2812	Alkalies and chlorine.....	3	619	12	...	(²)	12	(²)
3334	Primary aluminum.....	6	5,693	11	3	1	4	6

NOTE: Detailed figures may not add to totals because of independent rounding.

¹Includes simple as well as complex treatment.²Less than 500 million gallons.

INDUSTRIAL WATER USE

209-41

OF WATER, FOR WATER USE REGIONS AND SELECTED INDUSTRIES: 1954—Continued
for 1954 was 20 million gallons or more)

Water discharged (billions of gallons)		Number of es- tablishments recirculating or reusing water	Number of es- tablishments treating water prior to recircula- tion or reuse	Water required if no water was recirculated or reused (billions of gallons)	Water intake, by kind of water (billions of gallons)					Code
Total	Treated prior to discharge ¹				Fresh				Brackish (salt)	
					Total	From public water system	From company surface water system	From company ground water system		
382	17	268	39	966	367	119	199	49	44	
21	2	81	12	30	22	7	3	12	1	20
75	1	79	10	91	66	4	58	4	22	24
216	9	59	12	740	215	101	102	12	9	26
25	2	13	...	31	20	2	15	3	7	28
36	3	18	2	58	33	1	14	18	5	33
56	(²)	50	6	77	51	2	46	3	20	2421
147	(²)	30	5	475	145	87	50	8	6	2611
66	8	23	6	260	68	12	51	5	2	2612
5	...	1	...	13	6	2	4	...	6	2812
10	3	6	2	22	11	...	2	9	(²)	3334

Table 6.—QUANTITY OF WATER USED, BY TYPE OF INDUSTRIAL USE, KIND AND
(Represents data for establishments whose gross water

	Water use region, State, and county	Establish- ments, number	Employees, number	Water intake (billions of gallons)				
				All purposes		Process	Cooling and air condi- tioning	Boiler feed, sanitary service, and other uses
				Total	Treated prior to use ¹			
1	United States, total.....	10,226	6,934,861	11,757	4,155	3,029	7,393	1,335
2	CUMBERLAND REGION.....	26	12,643	16	7	5	6	5
3	Tennessee: Davidson.....	18	7,914	14	7	4	6	4
4	NEW ENGLAND REGION.....	845	529,051	578	194	278	198	102
5	Connecticut: Fairfield.....	65	52,368	20	2	7	9	4
6	Hartford.....	46	85,514	78	5	22	41	15
7	New Haven.....	75	62,272	52	17	15	26	11
8	New London.....	21	7,168	24	2	6	16	2
9	Maine: Aroostook.....	7	1,331	12	2	4	8	...
10	Cumberland.....	7	4,283	18	8	15	3	...
11	Kennebec.....	11	5,723	16	12	14	...	2
12	Oxford.....	5	2,969	18	18	12	...	6
13	Penobscot.....	12	4,070	58	30	44	8	6
14	Washington.....	5	694	16	7	6	6	4
15	Massachusetts: Berkshire.....	20	11,530	14	2	8	3	3
16	Essex.....	55	36,240	47	6	8	7	32
17	Hampden.....	51	32,867	29	16	19	5	5
18	Middlesex.....	63	35,254	50	13	19	24	7
19	Suffolk.....	36	17,813	19	3	4	13	2
20	Worcester.....	60	39,179	29	7	11	7	11
21	New Hampshire: Coos.....	4	2,277	14	2	6	1	7
22	Rhode Island: Providence.....	71	32,156	22	8	9	9	4
23	DELAWARE AND HUDSON REGION.....	1,286	925,356	1,092	412	185	718	189
24	Delaware: New Castle.....	37	18,612	32	14	15	12	5
25	Sussex.....	10	4,059	15	4	1	14	...
26	New Jersey: Bergen.....	46	41,749	33	5	8	21	4
27	Camden.....	32	29,917	25	7	7	7	11
28	Essex.....	78	46,656	15	2	5	7	3
29	Gloucester.....	7	3,686	15	2	1	2	12
30	Hudson.....	77	61,235	77	33	6	56	15
31	Middlesex.....	57	36,088	75	19	7	63	5
32	Passaic.....	51	21,208	15	5	6	5	4
33	Salem.....	8	9,392	31	30	2	28	1
34	Union.....	47	37,355	86	10	4	78	4
35	New York: Kings.....	56	34,037	30	1	2	24	4
36	Saratoga.....	14	4,208	25	13	16	8	1
37	Schenectady.....	18	21,837	34	12	9	20	5
38	Pennsylvania: Bucks.....	21	19,949	80	76	4	74	2
39	Chester.....	13	7,706	24	18	3	18	3
40	Delaware.....	34	37,457	120	14	6	60	54
41	Montgomery.....	37	26,024	31	5	6	23	2
42	Northampton.....	30	26,138	82	65	4	60	18
43	Philadelphia.....	131	111,822	100	26	13	68	19
44	CHESAPEAKE BAY REGION.....	492	345,090	551	251	148	345	58
45	District of Columbia: Washington.....	11	4,697	6	2	...	3	3
46	Maryland: Alleghany.....	6	6,473	25	8	6	15	4
47	Baltimore.....	76	49,241	75	15	7	64	4
48	Baltimore City.....	22	58,982	152	147	33	115	4
49	Washington.....	3	8,384	8	...	...	7	1
50	New York: Broome.....	20	22,000	7	3	2	3	2

See footnotes at end of table.

INDUSTRIAL WATER USE

209-43

SOURCE OF WATER, FOR WATER USE REGIONS AND SELECTED COUNTIES: 1954

(intake for 1954 was 20 million gallons or more)

Water discharged (billions of gallons)				Water required if no water was recirculated or reused (billions of gallons)	Water intake, by kind of water (billions of gallons)					
Total	Treated prior to discharge ¹	Number of establishments recirculating or reusing water	Number of establishments treating water prior to recirculation or reuse		Fresh				Brackish (salt)	
					Total	From public water system	From company surface water system	From company ground water system		
10,677	1,373	6,770	1,310	21,906	10,135	1,663	6,899	1,573	1,622	1
16	12	18	6	38	16	1	15	(²)	(²)	2
14	12	14	4	33	14	1	13	...	...	3
505	27	571	68	877	504	98	374	32	74	4
18	1	50	9	23	19	9	9	1	1	5
75	1	31	4	88	77	24	44	9	1	6
45	2	50	8	58	40	12	23	5	12	7
22	1	15	6	29	9	2	7	...	15	8
12	...	5	1	13	12	...	12	...	...	9
17	...	4	...	19	18	1	17	...	...	10
12	1	9	3	37	16	1	15	...	...	11
16	2	3	...	100	18	...	18	...	...	12
55	...	8	...	92	58	...	57	1	...	13
15	...	3	...	30	16	...	16	...	...	14
12	...	11	...	19	14	2	9	3	...	15
44	2	39	1	58	16	8	6	2	31	16
20	2	33	6	38	28	6	20	2	1	17
42	3	45	4	54	25	7	16	2	25	18
18	...	23	5	25	8	4	3	1	11	19
22	2	42	5	45	28	8	18	2	1	20
13	...	2	...	19	14	1	12	1	...	21
19	3	48	4	29	20	4	15	1	2	22
1,029	274	845	170	1,969	789	132	580	77	303	23
32	10	27	3	39	21	5	15	1	11	24
15	1	7	...	20	15	...	13	2	...	25
32	3	26	5	55	23	12	8	3	10	26
23	2	21	4	26	22	5	13	4	3	27
14	2	46	9	289	12	8	1	3	3	28
14	...	5	...	47	15	9	5	1	...	29
74	40	48	10	104	16	8	6	2	61	30
71	37	47	16	113	15	4	3	8	60	31
14	1	29	2	17	15	8	6	1	...	32
31	24	4	...	32	4	...	3	1	27	33
82	2	38	11	204	11	6	3	2	75	34
29	13	33	4	37	8	5	...	3	22	35
24	...	8	2	52	25	3	22	...	...	36
33	...	14	10	37	34	2	32	...	...	37
79	40	14	3	98	80	1	76	3	...	38
23	7	11	4	40	24	1	22	1	...	39
115	40	22	9	206	119	3	116	...	1	40
30	3	32	8	44	31	3	25	3	...	41
77	8	15	2	104	82	3	77	2	...	42
97	17	81	22	258	93	19	70	4	7	43
519	68	313	57	873	371	79	222	70	180	44
6	...	10	...	10	6	3	2	1	...	45
24	3	4	...	40	25	1	1	23	...	46
71	10	48	9	100	22	9	8	5	53	47
140	9	14	2	159	32	24	4	4	120	48
8	...	1	1	8	8	...	8	...	...	49
6	...	7	2	12	7	4	...	3	...	50

Table 6.—QUANTITY OF WATER USED, BY TYPE OF INDUSTRIAL USE, KIND AND
(Represents data for establishments whose gross water

	Water use region, State, and county	Establish- ments, number	Employees, number	Water intake (billions of gallons)				
				All purposes		Process	Cooling and air condi- tioning	Boiler feed, sanitary service, and other uses
				Total	Treated prior to use ¹			
1	Pennsylvania:							
1	Blair.....	8	2,260	10	3	5	5	...
2	Clinton.....	8	4,012	20	9	9	11	...
3	Dauphin.....	12	11,736	32	15	3	27	2
4	Mifflin.....	4	4,419	9	2	1	5	3
5	Northumberland.....	7	2,565	6	1	...	5	1
6	York.....	34	14,747	8	5	5	2	1
7	Virginia:							
8	Chesterfield.....	4	4,163	14	5	2	2	10
9	Hopewell.....	8	4,366	71	3	21	48	2
10	Isle of Wight.....	4	998	18	...	18	...	...
11	Waynesboro.....	3	3,578	9	4	2	7	...
11	EASTERN GREAT LAKES-ST. LAWRENCE REGION.....	1,108	1,017,301	1,435	574	326	939	170
12	Michigan:							
13	Monroe.....	12	4,805	12	2	9	1	2
14	Wayne.....	222	305,933	375	292	113	224	38
15	New York:							
16	Chautauqua.....	17	8,459	38	29	9	...	29
17	Clinton.....	10	1,349	11	6	10	...	1
18	Erie.....	102	90,117	231	82	31	183	17
19	Jefferson.....	18	3,806	16	12	14	1	1
20	Lewis.....	8	711	9	4	7	2	...
21	Monroe.....	45	69,331	13	7	8	1	4
22	Niagara.....	47	41,254	79	26	13	62	4
23	Onondaga.....	32	31,320	42	6	18	20	4
24	Oswego.....	14	4,792	17	9	5	12	...
25	St. Lawrence.....	14	6,650	16	13	9	6	1
26	Ohio:							
27	Ashtabula.....	12	3,756	52	1	...	51	1
28	Cuyahoga.....	164	138,411	178	7	25	136	17
29	Lake.....	15	9,043	39	...	1	35	3
30	Lorain.....	16	19,733	60	...	5	53	2
31	Lucas.....	36	31,277	66	39	3	60	3
32	Summit.....	28	57,008	85	4	6	59	20
33	Pennsylvania:							
34	Erie.....	40	26,327	23	17	14	7	2
35	OHIO REGION.....	1,252	1,024,104	2,058	950	379	1,534	145
36	Kentucky:							
37	Boyd.....	6	4,174	40	8	3	36	1
38	Jefferson.....	77	42,409	54	27	8	31	15
39	Ohio:							
40	Butler.....	31	24,020	37	11	15	18	4
41	Hamilton.....	84	61,934	43	11	8	29	6
42	Jefferson.....	6	9,027	29	2	13	14	2
43	Lawrence.....	4	2,498	48	22	5	42	1
44	Mahoning.....	32	35,610	248	136	69	170	9
45	Montgomery.....	39	67,064	24	6	11	8	5
46	Scioto.....	4	4,576	27	1	6	20	1
47	Stark.....	44	36,591	28	29	14	11	3
48	Trumbull.....	28	28,492	61	20	14	45	2
49	Pennsylvania:							
50	Allegheny.....	126	138,919	437	295	73	339	25
51	Beaver.....	31	39,428	169	114	52	111	6
52	Cambria.....	6	14,892	44	44	3	39	2
53	Mercer.....	14	16,389	23	19	10	11	2
54	Westmoreland.....	34	27,117	59	50	4	50	5
55	West Virginia:							
56	Hancock.....	6	14,382	61	6	27	31	3
57	Kanawha.....	16	16,815	281	70	4	266	11

See footnotes at end of table.

INDUSTRIAL WATER USE

209-45

SOURCE OF WATER, FOR WATER USE REGIONS AND SELECTED COUNTIES: 1954—Continued
 intake for 1954 was 20 million gallons or more)

Water discharged (billions of gallons)				Water required if no water was recirculated or reused (billions of gallons)	Water intake, by kind of water (billions of gallons)					
Total	Treated prior to discharge ¹	Number of establishments recirculating or reusing water	Number of establishments treating water prior to recirculation or reuse		Fresh				Brackish (salt)	
					Total	From public water system	From company surface water system	From company ground water system		
10	5	6	1	17	10	1	5	4	...	1
15	4	8	3	23	20	...	19	1	...	2
30	...	7	...	49	32	2	22	8	...	3
9	1	4	1	24	9	1	8	...	...	4
6	1	5	...	7	6	1	5	...	...	5
8	4	26	4	25	8	2	6	...	...	6
13	13	3	1	29	14	...	14	...	...	7
69	...	8	1	90	71	18	53	...	...	8
18	...	3	...	23	18	...	4	14	...	9
9	2	1	1	11	9	...	5	4	...	10
1,384	148	712	125	2,189	1,424	341	1,052	31	11	11
10	6	8	...	20	12	1	10	1	...	12
368	69	120	21	425	373	65	305	3	2	13
38	...	15	1	40	38	38	...	...	...	14
11	4	8	1	19	11	...	11	...	...	15
225	35	72	13	423	231	91	136	4	...	16
15	...	11	4	32	16	10	6	...	...	17
9	...	7	1	23	9	...	9	...	...	18
12	1	38	9	45	13	5	7	1	...	19
77	3	38	6	120	78	27	48	3	1	20
42	1	20	4	64	41	5	35	1	1	21
17	...	12	3	19	17	...	17	...	...	22
14	2	7	...	23	16	9	5	2	...	23
52	1	9	3	55	52	...	51	1	...	24
176	5	97	12	212	176	31	144	1	2	25
39	...	9	5	214	39	1	38	...	...	26
60	...	10	3	301	60	2	58	...	...	27
64	2	36	14	112	65	6	58	1	1	28
80	1	19	1	114	84	27	53	4	1	29
23	11	19	4	35	23	7	16	...	...	30
1,953	143	802	173	2,962	2,044	174	1,701	169	14	31
37	1	5	2	89	40	...	40	...	...	32
49	23	45	14	67	54	15	30	9	...	33
36	3	22	8	75	37	3	22	12	...	34
37	17	62	17	96	37	10	22	5	6	35
29	...	4	...	42	29	...	27	2	...	36
48	1	4	2	61	48	...	47	1	...	37
244	12	17	2	297	248	79	169	...	...	38
23	2	25	6	38	24	6	2	16	...	39
24	...	2	...	32	27	(²)	27	...	...	40
19	4	33	8	71	28	2	10	16	...	41
55	13	17	3	214	61	3	58	...	...	42
429	9	68	13	479	435	12	417	6	2	43
166	9	16	1	178	169	5	157	7	...	44
44	...	5	2	54	44	...	44	...	...	45
23	1	10	1	26	23	1	22	...	...	46
57	...	17	1	63	58	5	52	1	1	47
61	3	3	...	125	61	...	61	...	...	48
277	...	11	5	449	281	2	278	1	...	49

Table 6.—QUANTITY OF WATER USED, BY TYPE OF INDUSTRIAL USE, KIND AND
(Represents data for establishments whose gross water

	Water use region, State, and county	Establish- ments, number	Employees, number	Water intake (billions of gallons)				
				All purposes		Process	Cooling and air condi- tioning	Boiler feed, sanitary service, and other uses
				Total	Treated prior to use ¹			
1	TENNESSEE REGION.....	168	90,229	228	70	57	154	17
	Alabama:							
2	Colbert.....	5	4,083	7	2	1	4	2
3	Morgan.....	5	1,841	5	2	1	4	...
	Kentucky:							
4	Marshall.....	5	958	11	1	...	10	1
	North Carolina:							
5	Buncombe.....	4	5,358	9	5	4	4	1
6	Haywood.....	4	3,886	15	14	13	1	1
7	Transylvania.....	3	2,141	5	5	4	...	1
	Tennessee:							
8	Hamilton.....	33	16,541	21	7	6	11	4
9	McMinn.....	3	506	7	6	6	...	1
10	Maury.....	6	2,132	12	1	...	11	1
11	Sullivan.....	13	13,890	77	13	10	66	1
	Virginia:							
12	Smyth.....	4	820	18	1	...	17	1
13	SOUTHEAST REGION.....	869	483,669	746	230	329	295	122
	Alabama:							
14	Etowah.....	9	9,439	32	1	2	4	26
15	Jefferson.....	49	37,219	50	2	7	38	5
16	Mobile.....	30	10,475	35	20	19	4	12
17	Talladega.....	8	4,364	19	4	4	14	1
18	Tuscaloosa.....	8	4,612	14	7	7	6	1
	Florida:							
19	Bay.....	4	1,794	22	5	4	17	1
20	Duval.....	21	4,109	23	7	6	15	2
21	Escambia.....	8	4,911	26	10	14	10	2
22	Gulf.....	3	1,171	15	8	8	7	(²)
23	Hillsborough.....	13	3,385	15	1	1	13	1
24	Nassau.....	3	1,122	21	6	14	6	1
25	Putnam.....	3	717	15	4	5	9	1
	Georgia:							
26	Bibb.....	12	2,377	14	11	8	4	2
27	Chatham.....	15	5,127	49	28	12	31	6
28	Glynn.....	3	2,116	29	15	11	17	1
	Mississippi:							
29	Jackson.....	5	1,888	14	12	9	4	1
	North Carolina:							
30	Cleveland.....	5	2,701	88	(²)	70	(²)	18
	South Carolina:							
31	Charleston.....	12	3,280	16	12	10	5	1
32	WESTERN GREAT LAKES REGION.....	1,206	932,042	1,539	242	502	902	135
	Illinois:							
33	Cook.....	446	348,742	449	67	70	326	53
34	Lake.....	19	14,627	8	1	5	1	2
35	Will.....	18	11,202	63	5	4	57	2
	Indiana:							
36	Lake.....	55	86,202	604	26	281	310	13
37	St. Joseph.....	9	29,456	8	1	1	6	1
	Michigan:							
38	Berrien.....	19	11,073	10	...	7	2	1
39	Genesee.....	17	70,912	9	1	6	1	2
40	Kalamazoo.....	29	12,575	26	12	16	8	2
41	Manistee.....	6	868	14	...	2	5	7
42	Muskegon.....	21	17,619	15	6	5	6	4
43	St. Clair.....	12	4,871	10	5	2	7	1
	Minnesota:							
44	St. Louis.....	12	4,060	10	9	3	6	1

See footnotes at end of table.

INDUSTRIAL WATER USE

209-47

SOURCE OF WATER, FOR WATER USE REGIONS AND SELECTED COUNTIES: 1954—Continued
 intake for 1954 was 20 million gallons or more)

Water discharged (billions of gallons)				Water required if no water was recirculated or reused (billions of gallons)	Water intake, by kind of water (billions of gallons)					
Total	Treated prior to discharge ¹	Number of establishments recirculating or reusing water	Number of establishments treating water prior to recirculation or reuse		Fresh				Brackish (salt)	
					Total	From public water system	From company surface water system	From company ground water system		
212	43	120	17	338	225	22	188	15	3	1
7	1	4	3	11	6	4	1	1	1	2
4	1	4	...	7	5	1	4	...	...	3
11	...	2	1	11	11	...	11	...	...	4
9	8	3	1	17	9	...	9	...	...	5
15	...	4	...	29	15	...	15	...	...	6
5	2	3	...	11	5	...	5	...	...	7
19	4	20	2	25	20	7	13	...	1	8
6	5	3	...	17	7	...	6	1	...	9
7	...	6	1	18	12	1	11	...	...	10
75	2	12	4	99	75	...	73	2	2	11
18	...	2	1	22	18	...	15	3	...	12
621	59	587	73	1,624	631	94	272	265	116	13
31	...	8	...	63	32	1	29	2	(²)	14
39	...	37	5	192	46	14	30	2	4	15
31	...	17	5	85	25	13	6	6	10	16
16	3	5	...	19	19	(²)	19	(²)	...	17
14	...	6	2	25	14	2	12	...	...	18
12	10	3	...	78	5	(²)	(²)	5	17	19
23	...	9	...	27	10	1	2	7	13	20
16	7	8	2	33	26	(²)	9	17	(²)	21
15	...	2	...	60	8	...	8	...	7	22
14	...	10	2	16	3	1	(²)	2	12	23
21	...	3	...	100	21	(²)	...	21	(²)	24
15	...	3	...	20	15	(²)	15	(²)	(²)	25
14	...	10	...	27	14	1	12	1	(²)	26
47	...	12	3	132	22	7	4	11	27	27
27	...	2	...	39	21	...	(²)	21	8	28
14	...	3	...	21	13	(²)	13	(²)	1	29
79	...	4	...	97	88	(²)	(²)	88	(²)	30
12	...	7	...	43	16	16	(²)	(²)	(²)	31
1,462	157	718	147	2,063	1,521	204	1,256	61	18	32
400	39	261	48	538	444	90	342	12	5	33
6	1	14	1	12	8	2	6	...	...	34
58	1	12	2	93	62	33	26	3	1	35
598	50	41	11	817	603	8	594	1	1	36
8	...	6	1	9	8	2	4	2	...	37
10	1	10	...	12	10	6	1	3	...	38
8	...	11	4	16	9	8	...	1	...	39
25	5	23	9	63	19	1	7	11	7	40
13	1	2	1	14	14	...	14	...	...	41
14	3	13	...	18	15	2	12	1	...	42
10	...	7	...	12	10	1	9	...	...	43
10	...	7	...	12	10	1	9	...	...	44

Table 6.—QUANTITY OF WATER USED, BY TYPE OF INDUSTRIAL USE, KIND AND
(Represents data for establishments whose gross water

	Water use region, State, and county	Establish- ments, number	Employees, number	Water intake (billions of gallons)				
				All purposes		Process	Cooling and air condi- tioning	Boiler feed, sanitary service, and other uses
				Total	Treated prior to use ¹			
	WESTERN GREAT LAKES REGION--Continued							
	Wisconsin:							
1	Brown.....	17	4,156	20	18	12	5	3
2	Marinette.....	10	2,111	22	12	22	...	...
3	Milwaukee.....	114	101,132	37	6	11	15	11
4	Outagamie.....	18	5,285	18	11	16	1	1
5	Winnebago.....	22	6,052	16	11	9	2	5
6	UPPER MISSISSIPPI REGION.....	810	458,730	540	158	182	277	81
	Illinois:							
7	La Salle.....	16	11,700	35	5	5	29	1
8	Lee.....	4	774	8	...	...	...	8
9	Madison.....	26	27,232	51	20	22	22	7
10	Peoria.....	17	8,081	37	6	2	24	11
11	St. Clair.....	22	14,266	17	5	3	11	3
12	Tazewell.....	7	21,252	13	7	1	9	3
13	Whiteside.....	7	4,340	19	...	19	...	...
	Iowa:							
14	Black Hawk.....	7	12,226	11	3	8	2	1
15	Clinton.....	6	3,693	7	2	1	5	1
16	Lee.....	10	4,629	19	1	1	17	1
17	Linn.....	13	10,523	7	2	2	4	1
	Minnesota:							
18	Carlton.....	7	3,577	16	3	13	2	1
19	Hennepin.....	38	26,071	10	6	2	5	3
20	Ramsey.....	28	26,873	10	1	5	3	2
	Missouri:							
21	St. Louis.....	14	22,411	7	3	3	3	1
22	St. Louis City.....	83	57,504	96	5	5	76	15
	Wisconsin:							
23	Eau Claire.....	8	4,624	13	11	13	...	...
24	Marathon.....	16	3,367	15	13	13	1	1
25	Oneida.....	3	1,195	13	8	9	3	1
26	Wood.....	13	5,578	21	16	13	7	1
27	LOWER MISSISSIPPI REGION.....	210	79,256	324	51	50	249	25
	Louisiana:							
28	East Baton Rouge.....	17	16,309	84	12	4	75	5
29	Jefferson.....	20	9,006	15	3	8	5	2
30	Orleans.....	32	12,690	7	...	2	4	1
31	St. Bernard.....	4	4,247	141	1	1	131	9
32	St. John the Baptist.....	3	130	8	2	1	6	1
	Mississippi:							
33	Adams.....	4	2,733	17	17	15	1	1
	Tennessee:							
34	Shelby.....	38	17,552	15	9	8	5	2
35	MISSOURI REGION.....	262	127,277	571	430	126	387	58
	Kansas:							
36	Wyandotte.....	22	22,843	12	3	6	4	2
	Minnesota:							
37	Koochiching.....	3	1,910	11	2	9	...	2
	Missouri:							
38	Jackson.....	24	27,851	23	4	11	9	3
	Montana:							
39	Yellowstone.....	6	1,269	7	1	2	5	...
	Nebraska:							
40	Douglas.....	24	13,538	22	13	3	15	4
	Wyoming:							
41	Natrona.....	3	1,320	8	2	1	6	1
42	ARKANSAS, WHITE AND RED REGION.....	289	144,630	177	76	69	77	31
	Colorado:							
43	Pueblo.....	6	6,953	19	14	13	4	2

See footnotes at end of table.

INDUSTRIAL WATER USE

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SOURCE OF WATER, FOR WATER USE REGIONS AND SELECTED COUNTIES: 1954—Continued
 intake for 1954 was 20 million gallons or more)

Water discharged (billions of gallons)				Water required if no water was recirculated or reused (billions of gallons)	Water intake, by kind of water (billions of gallons)					
Total	Treated prior to discharge ¹	Number of establishments recirculating or reusing water	Number of establishments treating water prior to recirculation or reuse		Fresh				Brackish (salt)	
					Total	From public water system	From company surface water system	From company ground water system		
19	16	14	4	47	20	1	19	...	...	1
17	2	7	2	28	22	...	20	2	...	2
32	4	66	15	43	37	19	14	4	...	3
15	...	10	7	41	18	...	18	...	...	4
15	2	17	4	22	16	3	8	5	...	5
489	45	544	120	1,021	533	136	284	113	7	6
34	18	10	4	41	35	1	33	1	...	7
8	...	2	1	8	8	...	8	...	...	8
35	3	22	11	194	51	3	20	28	...	9
24	...	11	...	54	37	1	30	6	...	10
14	...	17	4	61	15	4	...	11	2	11
11	...	4	4	15	13	...	7	6	...	12
19	...	5	2	19	19	...	19	...	...	13
11	1	5	...	15	11	1	6	4	...	14
6	2	6	...	8	7	...	5	2	...	15
18	...	5	2	20	19	1	18	...	...	16
4	...	4	1	9	7	1	3	3	...	17
16	...	7	...	33	15	...	15	...	1	18
10	1	19	3	13	9	1	4	4	1	19
8	...	11	2	12	10	1	1	8	...	20
6	...	11	4	8	7	1	6	...	...	21
94	1	60	14	216	95	88	6	1	1	22
13	...	8	...	18	13	2	11	...	...	23
11	1	14	2	27	15	2	12	1	...	24
13	3	3	...	17	13	...	13	...	...	25
19	1	12	4	45	21	...	21	...	...	26
310	19	139	25	685	313	7	240	66	11	27
80	6	14	4	311	84	...	62	22	...	28
13	1	12	1	28	14	1	12	1	1	29
6	1	19	3	12	5	1	2	2	2	30
140	...	3	...	143	140	...	140	...	1	31
7	...	2	...	8	8	...	8	...	...	32
17	...	4	1	55	17	...	1	16	...	33
15	5	27	7	28	15	1	1	13	...	34
470	14	186	48	1,210	567	83	64	420	4	35
11	2	14	4	82	12	4	...	8	...	36
11	2	3	...	23	11	...	11	...	...	37
19	1	23	4	46	23	4	18	1	...	38
7	1	5	2	15	7	1	6	...	...	39
22	...	16	8	34	22	20	...	2	...	40
7	2	3	1	30	5	1	3	1	3	41
115	13	225	55	1,077	161	26	85	50	16	42
6	...	4	...	31	19	...	19	...	...	43

Table 6.—QUANTITY OF WATER USED, BY TYPE OF INDUSTRIAL USE, KIND AND
(Represents data for establishments whose gross water

	Water use region, State, and county	Establish- ments, number	Employees, number	Water intake (billions of gallons)				
				All purposes		Process	Cooling and air condi- tioning	Boiler feed, sanitary service, and other uses
				Total	Treated prior to use ¹			
	ARKANSAS, WHITE AND RED REGION--Continued							
1	Kansas:							
	Sedgwick.....	19	44,532	6	2	2	2	2
	Louisiana:							
2	Jackson.....	4	938	14	1	3	10	1
3	Morehouse.....	5	2,445	15	13	14	...	1
4	Ouachita.....	4	1,788	17	2	4	12	1
5	Webster.....	4	5,186	9	9	7	1	1
	Texas:							
6	Morris.....	3	1,470	7	2	1	5	1
7	WESTERN GULF REGION.....	317	179,824	1,112	274	79	976	57
	Louisiana:							
8	Calcasieu.....	12	5,909	258	115	4	251	3
	Texas:							
9	Dallas.....	33	31,272	10	2	6	1	3
10	Fannin.....	6	6,404	236	18	17	216	3
11	Galveston.....	12	7,900	33	18	3	27	3
12	Harris.....	69	38,070	137	30	21	94	22
13	Jefferson.....	15	20,074	204	16	15	179	10
14	Nueces.....	13	4,323	27	23	1	24	2
15	Orange.....	4	3,153	44	44	5	38	1
16	Tarrant.....	20	29,928	23	3	2	19	2
17	COLORADO REGION.....	37	15,739	16	4	5	8	3
	Nevada:							
18	Clark.....	5	1,726	7	2	1	5	1
19	GREAT BASIN REGION.....	56	13,386	34	14	7	22	5
	Utah:							
20	Salt Lake.....	15	3,246	9	1	1	5	3
21	CALIFORNIA REGION.....	592	423,529	329	54	92	193	44
	California:							
22	Alameda.....	48	20,762	27	2	22	2	3
23	Contra Costa.....	37	20,901	139	16	29	104	6
24	Los Angeles.....	202	266,670	91	20	15	59	17
25	Monterey.....	13	1,361	7	5	5	2	...
	Oregon:							
26	Klamath.....	6	1,505	6	...	...	4	2
27	PACIFIC NORTHWEST REGION.....	401	133,005	411	164	210	113	88
	Idaho:							
28	Nez Perce.....	5	2,459	13	2	9	...	4
	Montana:							
29	Deer Lodge.....	6	2,145	10	...	1	8	...
	Oregon:							
30	Clackamas.....	6	1,998	25	18	19	5	1
31	Columbia.....	6	1,083	6	5	6	...	1
32	Coos.....	8	2,147	11	1	1	9	1
33	Lane.....	14	3,940	20	4	2	8	10
34	Marion.....	8	1,586	6	...	5	...	1
35	Multnomah.....	35	8,534	15	2	2	8	5
	Washington:							
36	Clallam.....	5	1,431	20	15	16	2	2
37	Clark.....	14	5,439	23	19	9	8	6
38	Cowlitz.....	10	6,382	33	28	27	1	5
39	Grays Harbor.....	5	1,599	16	11	10	3	3
40	Jefferson.....	2	530	8	...	4	3	1
41	King.....	44	42,116	16	1	2	4	10
42	Mason.....	6	1,350	14	12	10	3	1
43	Pierce.....	28	6,990	28	7	12	13	3
44	Snohomish.....	13	3,619	51	19	40	7	4
45	Spokane.....	10	6,202	11	7	4	3	4
46	Whatcom.....	12	1,927	17	7	14	2	1
47	Yakima.....	12	1,934	5	...	2	3	...

NOTE: Detailed figures may not add to totals because of independent rounding.

¹Includes simple as well as complex treatment.²Less than 500 million gallons.

INDUSTRIAL WATER USE

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SOURCE OF WATER, FOR WATER USE REGIONS AND SELECTED COUNTIES: 1954—Continued

intake for 1954 was 20 million gallons or more)

Water discharged (billions of gallons)				Water required if no water was recirculated or reused (billions of gallons)	Water intake, by kind of water (billions of gallons)					
Total	Treated prior to discharge ¹	Number of establishments recirculating or reusing water	Number of establishments treating water prior to recirculation or reuse		Fresh				Brackish (salt)	
					Total	From public water system	From company surface water system	From company ground water system		
5	...	12	...	8	6	4	1	1	...	1
4	...	3	...	20	4	...	2	2	10	2
15	...	5	...	85	15	...	10	5	...	3
15	...	3	1	97	17	...	12	5	...	4
8	...	3	3	13	9	...	5	4	...	5
6	1	3	...	9	6	1	5	...	1	6
909	218	247	67	2,989	476	85	301	90	636	7
255	123	10	6	355	68	...	45	23	190	8
9	5	24	4	41	10	3	1	6	...	9
212	1	4	1	318	34	...	31	3	202	10
29	11	11	...	210	30	11	16	3	3	11
115	19	58	19	837	69	11	22	36	68	12
196	15	11	8	653	97	21	75	1	107	13
24	...	13	6	130	6	5	...	1	21	14
42	42	3	3	56	5	4	...	1	39	15
4	1	19	2	65	22	20	1	1	1	16
10	1	28	9	53	15	5	8	2	1	17
4	...	4	1	11	7	3	4	...	...	18
23	13	33	6	144	28	9	11	8	6	19
9	...	8	1	32	6	2	3	1	3	20
268	102	414	105	828	150	48	47	55	179	21
8	1	35	7	36	7	3	...	4	20	22
132	63	30	8	167	32	10	21	1	107	23
69	33	148	41	450	49	24	11	14	42	24
6	...	11	1	9	3	...	...	3	4	25
6	...	4	...	6	6	...	6	...	...	26
382	17	268	39	966	367	119	199	49	44	27
12	...	3	...	25	13	...	13	...	...	28
6	1	4	...	13	10	...	10	...	...	29
25	5	6	2	81	25	...	25	...	...	30
5	...	5	1	8	6	...	6	...	...	31
10	...	4	1	13	3	...	3	...	8	32
20	...	12	2	69	20	...	20	...	...	33
5	...	7	3	10	6	...	...	...	...	34
15	1	22	3	21	13	2	5	6	2	35
20	...	4	2	64	20	7	13	...	...	36
23	...	9	...	24	23	1	15	7	...	37
32	...	10	2	85	33	20	12	1	...	38
16	...	4	2	55	12	11	1	...	4	39
5	...	2	...	20	5	5	...	...	3	40
12	...	23	...	19	14	6	8	...	2	41
13	...	5	...	44	14	...	7	7	...	42
26	...	18	1	126	18	10	2	5	10	43
50	...	9	2	126	44	33	11	...	7	44
11	3	7	1	18	11	...	7	4	...	45
17	...	9	2	54	17	17	...	...	...	46
4	...	7	1	8	5	...	3	2	...	47

MANUFACTURES--SUMMARY STATISTICS

Table 7.—TOTAL INDUSTRIAL WATER INTAKE, INCLUDING ESTABLISHMENTS USING LESS THAN 20 MILLION GALLONS OF WATER

Industry group	Total intake (billions of gallons)	Intake of 20 million gallon and over users	Estimated intake of less than 20 million gallon users ¹	Percentage of intake of less than 20 million users to total intake
Total.....	12,077	11,757	320	2.6
Food and kindred products.....	677	590	87	12.9
Tobacco manufactures.....	3	2	1	33.3
Textile mill products.....	287	273	14	4.9
Apparel and related products.....	16	...	16	100.0
Lumber and wood products.....	166	133	33	19.9
Furniture and fixtures.....	16	7	9	56.3
Pulp, paper and products.....	1,613	1,607	6	0.4
Printing and publishing.....	36	13	23	63.9
Chemicals and products.....	2,827	2,810	17	0.6
Petroleum and coal products.....	1,519	1,516	3	0.2
Rubber products.....	115	113	2	1.7
Leather and leather goods.....	25	20	5	20.0
Stone, clay, and glass products.....	282	267	15	5.3
Primary metal industries.....	3,651	3,641	10	0.3
Fabricated metal products.....	220	196	24	10.9
Machinery, except electrical.....	143	120	23	16.1
Electrical machinery.....	126	118	8	6.3
Transportation equipment.....	259	253	6	2.3
Instruments and related products.....	22	19	3	13.6
Miscellaneous manufactures.....	74	59	15	20.3

¹The estimate was made by assuming the mid-points of the water use size class on the average per establishments and multiplying these mid-points by the number of establishments in the size groups. For the firms that filed short forms, five employees or less, 500,000 gallons was used as the mid-point.

Chapter X.—Selected Materials Consumed

Content of Chapter

This chapter contains a recapitulation of data on 108 materials consumed by manufacturing industries in 1954. These represent the materials for which relatively complete manufacturing consumption was collected. The more important of these are also shown by State provided that the consumption of the material is geographically dispersed. In addition to these materials, data were collected on many other materials not shown in the chapter because their coverage was limited to industries in which they were an important part of the total material cost. An index is provided which lists the material items for which data are not shown in this chapter and provides table references to Volume II, "Industry Statistics" where consumption data are published. Some additional material consumed data are collected in the Census Bureau's current statistical program and are published in the Facts for Industry series. The table on "Raw Cotton Consumed" in this chapter was compiled from this source.

Scope of Data in Tables

In this chapter the data are arranged according to broad groups of industries which represent 2-digit Standard Industrial Classification groups or combinations of such groups. The text preceding each industry grouping defines the group, notes any special problems and points out where consumption outside manufacturing is significant. In addition, definitions of the materials for which data are shown or other explanatory statements are included in the texts preceding the industry groupings.

The data shown in this chapter include primarily "complete" coverage materials for which statistics were collected in the materials inquiry. "Complete" coverage materials are those for which the data obtained in the 1954 Census represent about 90 percent or more of total consumption by manufacturing industries. Generally, material data are not shown in this chapter where only one or two industries accounted for the major portion of the manufacturing consumption of the material. However, such materials are listed in the index and the data are shown in the materials consumed tables of Volume II, "Industry Statistics." Also, data are not shown in this chapter on materials for which Census information was obtained in conjunction with the data on shipments of the material. Data on the latter material are given in the product tables (table 6) of Volume II.

Establishment Basis of Data

With a few exceptions that are noted in the individual texts, the data shown are the total consumption by establishments classified in the specified industry rather than the total consumption in the manufacture of the products defined by the industry title. That is, all of the metal consumed by an establishment classified in the metal stampings industry (3463) is included in the total for that industry. Consequently, the quantity of metal consumed by this industry includes not only that used in stampings but also the quantities used in producing secondary products as special dies, jigs, fixtures, electrical appliances, etc. In the appendix to this volume entitled "Industry Descriptions," data are shown on the proportion that shipments of the primary products of an industry are of the total shipments of the industry. Conversely, the material totals for an industry do not include the materials consumed in products primary to the industry by establishments classified in other industries. Data on the proportion of shipments of primary products of each industry shipped by the primary industry are also shown in the appendix.

Coverage

As noted in the Introduction to the Census Volumes, some undercoverage exists in the statistics for most materials. This undercoverage results from the fact that very small establishments and establishments consuming negligible amounts of specific materials were not required to report these materials. While no precise measure of the effect of the undercoverage is available, it is believed that for most materials for which data are shown, the understatement is insignificant. However, for some materials which are characterized by large numbers of small consumers, the undercoverage resulting from this factor may be of some consequence, especially in the smaller cells.

The totals for consumption of a material by all industries shown in the tables in this chapter generally do not represent complete manufacturing consumption. Industries selected for coverage generally totaled 90 percent or more of manufacturing consumption. Consequently, as much as 10 percent of the manufacturing consumption of a material may not be accounted for in the table. This factor would not affect the totals for the individual industries included in the tables. Moreover, data for material consumption in a State represent the consumption in that State only by the industries specified in the material by industry table.

Cost of Materials Consumed

Census respondents were requested to report the amounts actually paid or payable after discounts and to include freight and direct charges incurred in acquiring the materials consumed during 1954. For materials transferred from other establishments of the same company, respondents were requested to report the nearest approximation to the commercial value of the material. Where a question arose concerning such transfer values, respondents were requested to determine the value of the material reported to Census as a product by the producing plant and then to add only freight and other direct handling charges. Thus, the cost of materials consumed represents a "purchasers price" as contrasted to the value of the output of the material which may be termed a "producers price."

Consumption of any given item was defined as the quantity actually consumed or put into production by the establishment during the report year. Respondents were generally permitted to use purchase data where purchases closely approximated consumption. However, where inventory change was significant, respondents were requested to take this into account in determining consumption for major items.

Relationship of Materials Data to Other Statistics

The materials consumed by manufacturers may have been obtained from any or all of a number of possible sources. These include imports as well as materials produced domestically. They may have been produced in the establishment, obtained directly from the manufacturer of the materials, from some trade channel such as wholesalers or from the stocks of the consuming manufacturer. In some instances, previously held stocks of producers of the material and of trade channels were a significant source of individual materials consumed during the year.

The materials consumption data cover materials actually put into production during the year. The resulting products may either have been shipped or added to work-in-process or finished goods inventory as of the end of the year. Therefore, in relating material consumed data to shipment or value added data, it is necessary to take into account inventory changes in work-in-process and finished goods for the industry.

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Foods

This section presents data on selected important materials used primarily in the food manufacturing industries. Characteristically, many of these materials are used for similar purposes both in manufacturing and nonmanufacturing establishments. For example, livestock are slaughtered in meat packing plants which are classified in manufacturing and also by retail butcher stores which are not classified in manufacturing. In addition, substantial quantities of many of these materials are consumed directly by households. However, the discussion and tables that follow relate only to industrial consumption.

Livestock slaughtered

Data shown in table 2A represent the livestock slaughtered in Industry 2011, Meat Packing Plants, in the period November 1, 1953 through October 31, 1954.

The 1954 Census of Manufactures included establishments accounting for about 90 percent of the volume of commercial livestock slaughter or 38,400 million pounds live weight out of a total of 42,700 million pounds reported by the U. S. Department of Agriculture. The Department of Agriculture estimates cover all commercial slaughter whether performed in establishments classified as manufacturing, trade, freezer lockers, on farms, etc. Over 99 percent of the livestock slaughter in manufacturing is performed in Industry 2011, Meat Packing Plants, and a very small part is performed in Industry 2013, Prepared Meats.

Nonmanufacturing livestock slaughter is performed principally in establishments primarily classified in wholesale and retail trade but no data were collected on such operations in the 1954 Census of Business.

The statistics cover the fiscal year ending October 31 rather than the calendar year, since companies accounting for a large part of the slaughter use this fiscal period. A comparison with Department of Agriculture estimates indicated that the difference between calendar and fiscal year data is negligible except for hogs in which the calendar year slaughter exceeded fiscal year slaughter by a little over 2 percent.

A more detailed discussion of the differences between Department of Agriculture and Census data is shown in 1954 Census of Manufactures, Volume II, Industry Statistics, page 20A-1 and the footnote to table 7A on page 20A-21.

Poultry Killed and Dressed

Table 2B contains data on the chickens and turkeys killed in establishments classified in Industry 2015, "Poultry Dressing Plants." A comparison with the Department of Agriculture estimates indicates that establishments included in the Census of Manufactures accounted for about 71 percent of the total commercial broiler production (including farm production) in 1954. The 1954 Census of Manufactures data show that establishments classified in the Poultry Dressing Plants Industry processed over 98 percent of the chickens, turkeys, and other fowl killed in manufacturing establishments.

Sugar

In addition to the sugar consumed in manufacturing establishments, as shown in table 1C, substantial quantities are consumed in households, restaurants, hotels, and wholesale trade establishments in making various food preparations.

Fish

In addition to the quantity of fish utilized in manufacturing establishments as shown in tables 1E and 2E, some quantity of fish is packaged in wholesale trade establishments which are not included in these tables. The data do not include that portion of the catch sold for consumption as fresh fish.

Skim milk

The data shown for skim milk in table 1D represent only the quantity purchased (or transferred from one establishment to another). There is also a substantial production of skim milk produced and consumed in the same plant which is not reflected in these tables.

Table 1A.—SELECTED GRAINS CONSUMED BY INDUSTRY: 1954 AND 1947

Code	Industry	1954		1947		1954		1947	
		Quantity (1,000 bushels)	Delivered cost (\$1,000)	Quantity (1,000 bushels)	Delivered cost (\$1,000)	Quantity (1,000 bushels)	Delivered cost (\$1,000)	Quantity (1,000 bushels)	Delivered cost (\$1,000)
		Wheat (011111)				Corn (011115)			
	Total.....	526,890	1,263,669	723,459	1,755,057	427,698	706,735	(NA)	(NA)
2041	Flour and meal.....	486,045	1,174,829	673,308	1,629,316	54,320	89,820	52,582	102,803
2042	Prepared animal feeds.....	32,965	70,681	41,384	103,530	205,450	351,283	137,503	292,337
2043	Cereal breakfast foods.....	7,880	18,159	8,767	22,211	14,478	25,204	14,176	27,292
2045	Flour mixes.....	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx
2086	Beer and ale.....	xxx	xxx	xxx	xxx	4,409	6,517	(NA)	(NA)
2083	Malt.....	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx
2085	Distilled liquor.....	(¹)	(¹)	(¹)	(¹)	22,699	38,588	33,264	60,604
2094	Corn wet milling.....	xxx	xxx	xxx	xxx	126,342	195,323	139,825	253,637
		Oats (011121)				Barley (011125)			
	Total.....	159,603	142,826	(NA)	(NA)	130,538	198,369	(NA)	(NA)
2041	Flour and meal.....	11,717	10,328	(NA)	(NA)	3,156	4,064	(NA)	(NA)
2042	Prepared animal feeds.....	118,163	106,213	112,591	123,981	36,430	46,381	30,553	48,463
2043	Cereal breakfast foods.....	29,723	26,285	(NA)	(NA)	1,983	2,845	(NA)	(NA)
2045	Flour mixes.....	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx
2082	Beer and ale.....	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx
2083	Malt.....	xxx	xxx	xxx	xxx	88,969	145,079	(NA)	(NA)
2085	Distilled liquor.....	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx
2094	Corn wet milling.....	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx

NA Not available.

¹ A small amount of wheat was consumed by this industry, but no data were collected in the Census.

Table 1B.—WHEAT FLOUR, AND SEMOLINA AND DURUM FLOUR CONSUMED BY INDUSTRY: 1954 AND 1947

Code	Industry	Wheat flour, except semolina and durum (204111)				Semolina and durum flour (204115)	
		1954		1947		1954	
		Quantity (cwt)	Delivered cost (\$1,000)	Quantity (cwt)	Delivered cost (\$1,000)	Quantity (cwt)	Delivered cost (\$1,000)
	United States.....	119,259,058	713,149	(NA)	(NA)	5,283,611	43,097
2041	Flour and meal.....	2,806,071	15,284	...	...	...	...
2042	Prepared animal feed.....	1,697,191	8,174	(NA)	(NA)	...	...
2043	Breakfast foods.....	245,056	1,282	(NA)	(NA)	...	...
2045	Flour mixes.....	5,793,149	32,695	(NA)	(NA)	...	...
2051	Bread and related products.....	186,560,770	1538,939	82,735,000	495,518	...	...
2052	Biscuit and crackers.....	17,231,610	84,032	14,288,000	74,865	...	...
2098	Macaroni and spaghetti.....	2,774,923	19,640	(²)	(²)	5,283,611	43,097
2099	Food preparations, n.e.c.....	2,150,288	13,103	(NA)	(NA)	...	...

NA Not available. ¹These figures do not include an estimated 11,954,910 cwt. valued at \$84,880 thousand consumed in retail bakeries with baking on premises. (SIC 5462). Comparable 1947 figures for consumption of flour by retail bakeries are not available. ²Not available separately. However, total wheat, semolina and durum flour consumed in 1947 was 8,338,000 cwt. valued at \$50,282 thousands.

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Table 1C.—REFINED SUGAR (CANE AND BEET—2016011) CONSUMED BY INDUSTRY: 1954 AND 1947

Code	Industry	1954		1947	
		Quantity (cwt)	Delivered cost (\$1,000)	Quantity (cwt)	Delivered cost (\$1,000)
	United States.....	74,056,708	641,826	(NA)	(NA)
2021	Creamery butter.....	162,759	1,451	(NA)	(NA)
2022	Natural cheese.....	15,745	142	(NA)	(NA)
2023	Concentrated milk.....	677,818	6,115	(NA)	(NA)
2024	Ice cream and ices.....	2,254,461	19,839	(NA)	(NA)
2025	Special dairy products.....	61,651	526	(NA)	(NA)
2026	Fluid milk.....	2,056,809	17,862	(NA)	(NA)
2027					
2033	Canned fruits and vegetables.....	8,227,461	70,509	8,134,060	67,504
2035	Pickles and sauces.....	1,901,292	16,572	1,558,290	13,379
2037	Frozen fruits and vegetables.....	1,132,244	10,412	396,760	3,304
2041	Flour and meal.....	1,128,416	9,421	(NA)	(NA)
2042	Prepared animal feeds.....	245,904	1,838	(NA)	...
2043	Cereal breakfast foods.....	677,997	5,819	(NA)	(NA)
2045	Flour mixes.....	2,345,701	20,785	(NA)	(NA)
2051	Bread and related products.....	11,464,912	198,959	9,005,750	77,084
2052	Biscuit and crackers.....	4,127,272	34,559	2,385,210	20,820
2071	Confectionery products.....	9,784,221	88,352	8,098,080	69,620
2072	Chocolate and cocoa products.....	3,605,162	30,850	3,367,110	27,921
2073	Chewing gum.....	1,063,083	9,243	1,164,170	9,658
2081	Bottled soft drinks.....	8,837,861	82,643	8,007,870	68,484
2082	Beer and ale.....	286,707	2,242	(NA)	(NA)
2094	Corn wet milling.....	36,346	317	(NA)	(NA)
2095	Flavorings.....	10,182,363	81,693	6,918,910	56,233
2099	Food preparations, n.e.c.....	4,843,606	40,820	(NA)	(NA)

¹Not included in these figures were an estimated 3,083,160 cwt valued at \$30,216 thousand consumed by retail bakeries with baking on premises (SIC 5462). Comparable 1947 figures of consumption of materials for retail bakeries are not available.

Table 1D.—DAIRY PRODUCTS CONSUMED BY INDUSTRY—1954

Code	Industry	Cheese 202251 ¹ (including cottage cheese curd)		Ice cream and ice milk mix and 202331 ¹		Skim milk (fluid) 202751 ¹	
		Quantity (cwt)	Delivered Cost (\$1,000)	Quantity (1,000 gallons)	Delivered Cost (\$1,000)	Quantity (cwt)	Delivered cost (\$1,000)
	United States.	5,523,783	175,782	93,939	119,765	53,645,659	50,946
2021	Creamery butter.....	72,955	2,314	3,028	3,650	7,089,862	6,296
2022	Natural cheese.....	451,968	17,213	...	...	5,526,652	5,423
2023	Concentrated milk.....	...	...	824	1,079	23,455,125	20,539
2024	Ice cream and ices.....	15,219	244	54,149	66,227	5,030,086	5,044
2025	Special dairy products.....	4,127,062	143,984	373	475	3,197,115	3,180
2026	Fluid milk.....	856,579	12,027	35,565	48,334	9,346,819	10,464
2027							

¹These figures represent purchased materials (or materials transferred from other plants of the same company) and do not include materials made and consumed in the same plant.

Table 1E.—FIN FISH ROUND (091211), CONSUMED BY INDUSTRY—1954

Code	Industry	Quantity (Tons)	Delivered cost (\$1,000)
	United States.....	443,008	153,841
2031	Canned sea food.....	297,219	95,533
2032	Cured fish.....	43,657	19,005
2036	Packaged sea food.....	102,132	39,303

Table 2A.—NUMBER, WEIGHT, AND COST OF ANIMALS SLAUGHTERED IN INDUSTRY 2011, MEAT PACKING PLANTS, BY DIVISIONS AND STATES: 1954

Division and State	Cattle (011511)				Calves (011515)			
	Number	Delivered cost (\$1,000)	Live weight (1,000 lbs.)	Chilled dressed weight (1,000 lbs.)	Number	Delivered cost (\$1,000)	Live weight (1,000 lbs.)	Chilled dressed weight (1,000 lbs.)
United States, total ¹	21,607,392	3,436,874	20,713,315	11,256,590	9,253,696	349,379	2,117,103	1,212,883
Northeast.....	1,606,527	316,906	1,614,714	894,510	1,285,246	42,805	228,539	130,328
New England.....	213,301	29,666	207,892	103,157	188,413	3,501	25,475	14,540
Maine.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
New Hampshire.....	25,000	4,791	23,750	13,062	(D)	(D)	(D)	(D)
Vermont.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Massachusetts.....	86,788	12,747	84,218	42,468	146,893	2,582	18,230	10,229
Rhode Island.....	13,293	1,671	12,973	6,195	204,964	102	754	427
Connecticut.....	73,120	9,228	74,797	35,838	23,088	374	2,592	1,676
Middle Atlantic.....	1,393,226	287,240	1,406,822	791,353	1,096,833	39,304	203,064	115,788
New York.....	450,280	102,237	489,871	273,365	436,708	17,302	91,632	51,461
New Jersey.....	303,966	74,096	336,298	195,863	204,964	10,256	47,836	27,616
Pennsylvania.....	638,980	110,907	580,653	322,125	455,161	11,746	63,596	36,711
North Central.....	12,320,783	2,051,762	11,875,522	6,505,980	4,761,611	150,372	911,028	522,591
East North Central.....	4,943,029	810,715	4,731,272	2,567,428	2,913,012	83,792	491,177	287,897
Ohio.....	968,860	160,288	905,591	490,452	180,320	6,340	31,265	18,087
Indiana.....	616,733	92,497	554,526	298,100	212,102	8,783	49,303	28,157
Illinois.....	2,081,532	380,062	2,018,540	1,132,476	798,365	27,105	167,704	97,999
Michigan.....	557,781	80,972	521,717	276,816	425,816	13,355	80,345	45,940
Wisconsin.....	718,123	96,896	730,898	369,584	1,296,409	28,209	162,560	97,714
West North Central.....	7,377,754	1,241,047	7,144,250	3,938,552	1,848,599	66,580	419,851	234,694
Minnesota.....	1,344,790	210,083	1,361,465	730,088	566,209	15,970	97,714	54,805
Iowa.....	1,834,056	335,890	1,808,517	1,014,897	518,720	15,381	90,700	50,505
Missouri.....	977,825	154,784	882,743	487,381	324,163	13,016	82,874	45,346
North Dakota.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
South Dakota.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Nebraska.....	1,720,760	309,684	1,669,859	937,499	72,978	3,806	25,647	14,112
Kansas.....	1,107,949	168,168	1,033,843	558,979	337,375	17,274	113,794	65,443
South.....	3,863,831	405,791	3,056,045	1,544,690	2,630,433	129,840	816,157	466,650
South Atlantic.....	1,167,727	124,552	896,755	452,123	766,828	28,624	183,974	99,419
Delaware.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Maryland.....	194,000	34,095	191,937	101,903	106,473	3,145	16,629	9,310
District of Columbia.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Virginia.....	114,356	14,933	101,452	52,140	227,695	9,417	49,434	27,406
West Virginia.....	24,631	2,924	20,854	10,453	5,573	222	1,128	630
North Carolina.....	76,400	7,625	60,495	29,505	21,705	679	4,171	2,344
South Carolina.....	59,085	4,777	40,596	19,501	14,515	381	3,369	1,617
Georgia.....	410,431	30,861	270,277	128,143	183,488	7,641	57,506	30,482
Florida.....	283,696	28,831	206,456	108,273	99,712	3,241	28,219	15,129
East South Central.....	974,088	103,757	749,804	378,477	599,023	22,885	148,831	81,882
Kentucky.....	203,551	26,103	176,537	91,924	34,946	1,561	8,349	4,751
Tennessee.....	439,011	47,164	345,242	174,841	415,362	12,558	82,408	45,829
Alabama.....	210,806	18,098	146,416	72,330	111,761	6,218	41,703	22,668
Mississippi.....	120,720	12,392	81,609	39,382	36,954	2,548	16,371	8,634
West South Central.....	1,722,016	177,482	1,409,486	714,090	1,264,582	78,331	483,352	285,349
Arkansas.....	53,338	4,264	55,892	26,677	13,176	1,005	6,101	3,316
Louisiana.....	91,646	5,997	65,223	31,012	145,464	4,507	6,541	24,784
Oklahoma.....	343,273	40,314	290,121	151,518	213,352	14,676	93,835	53,699
Texas.....	1,233,759	126,907	998,250	504,883	892,590	58,143	376,875	203,550
West.....	3,816,251	662,415	4,167,034	2,311,410	576,406	26,362	161,379	93,314
Mountain.....	1,175,318	205,161	1,088,214	624,875	81,774	4,743	27,147	15,017
Montana.....	35,685	4,956	32,683	17,566	2,923	165	952	613
Idaho.....	63,660	9,466	59,803	32,990	5,649	299	1,638	968
Wyoming.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Colorado.....	757,067	146,961	727,817	428,963	36,793	1,984	11,768	6,251
New Mexico.....	47,566	4,716	30,050	16,188	(D)	(D)	(D)	(D)
Arizona.....	84,687	12,156	72,445	40,665	13,771	1,089	6,050	3,328
Utah.....	157,005	22,930	140,753	74,942	13,972	682	3,854	2,253
Nevada.....	(D)	(D)	(D)	(D)	3,425	223	1,228	693
Pacific.....	2,640,933	457,254	3,078,820	1,686,535	494,632	21,619	134,232	78,297
Washington.....	305,606	51,219	281,854	149,598	40,041	2,267	12,165	6,729
Oregon.....	203,992	31,672	194,297	98,452	41,493	2,083	13,242	7,346
California.....	2,131,335	374,363	2,602,669	1,438,485	413,098	17,269	108,825	64,222

See footnotes at end of table.

Table 2A.—NUMBER, WEIGHT, AND COST OF ANIMALS SLAUGHTERED IN INDUSTRY 2011, MEAT PACKING PLANTS, BY DIVISIONS AND STATES: 1954—Continued

Division and State	Sheep and lamb (011521)				Hogs (011525)			
	Number	Delivered cost (\$1,000)	Live weight (1,000 lbs.)	Chilled dressed weight (1,000 lbs.)	Number	Delivered cost (\$1,000)	Live weight (1,000 lbs.)	Chilled dressed weight (1,000 lbs.)
United States, total ¹	15,350,381	282,253	1,487,799	702,594	57,040,617	3,130,533	14,001,593	9,728,470
Northeast.....	2,762,295	56,422	255,083	117,448	5,297,782	273,687	1,175,483	817,449
New England.....	317,917	5,424	28,377	12,863	776,233	45,089	189,767	129,908
Maine.....	...	...	...	...	5,917	320	1,386	1,068
Vermont.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Massachusetts.....	(D)	(D)	(D)	(D)	402,533	23,340	99,647	67,774
Rhode Island.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Connecticut.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Middle Atlantic.....	2,444,378	50,998	226,706	104,585	4,521,549	228,598	985,716	687,541
New York.....	1,270,285	26,089	115,188	53,594	1,136,818	56,575	247,533	175,224
New Jersey.....	1,031,313	21,684	97,069	44,084	1,435,960	71,966	303,951	210,637
Pennsylvania.....	142,780	3,225	14,449	6,907	1,948,771	100,057	434,232	301,680
North Central.....	7,597,593	140,845	708,698	351,984	39,666,359	2,234,759	10,060,960	7,023,167
East North Central.....	1,786,420	32,012	170,713	82,751	15,201,452	820,899	3,682,707	2,607,160
Ohio.....	220,445	3,934	19,158	9,297	3,180,451	165,268	717,237	510,028
Indiana.....	131,728	2,279	12,319	5,954	2,893,739	156,443	699,977	494,216
Illinois.....	860,596	15,511	83,929	41,078	5,813,894	318,329	1,470,524	1,042,188
Michigan.....	380,147	6,875	37,094	17,880	721,528	37,503	161,563	112,504
Wisconsin.....	193,504	3,413	18,213	8,542	2,591,840	143,356	633,406	448,224
West North Central.....	5,811,173	108,833	537,985	269,233	24,464,907	1,413,860	6,378,253	4,416,007
Minnesota.....	921,158	17,147	89,212	42,279	5,041,261	276,109	1,248,920	874,362
Iowa.....	1,704,427	31,698	165,681	79,200	9,677,858	594,418	2,702,985	1,871,466
Missouri.....	707,588	13,390	68,445	33,313	2,991,945	164,183	715,315	498,697
North Dakota.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
South Dakota.....	(D)	(D)	(D)	(D)	1,994,897	112,050	514,382	342,656
Nebraska.....	1,218,993	23,925	122,039	57,913	2,646,295	151,058	682,157	475,058
Kansas.....	599,099	10,368	52,406	26,048	(D)	(D)	(D)	(D)
South.....	1,363,750	17,132	130,559	55,048	8,598,685	428,941	1,888,803	1,306,058
South Atlantic.....	115,030	2,112	9,969	5,141	4,142,939	196,723	858,897	593,448
Delaware.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Maryland.....	74,030	1,275	6,228	3,426	804,066	41,699	172,674	126,916
District of Columbia.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Virginia.....	12,994	263	1,282	538	1,104,988	55,045	239,422	159,891
West Virginia.....	(D)	(D)	(D)	(D)	59,033	2,849	12,848	9,319
North Carolina.....	(D)	(D)	(D)	(D)	473,932	21,437	91,481	62,843
South Carolina.....	(D)	(D)	(D)	(D)	269,277	12,352	55,779	37,196
Georgia.....	604	9	53	25	1,150,100	51,338	229,848	156,360
Florida.....	(D)	(D)	(D)	(D)	280,047	11,922	56,411	40,578
East South Central.....	242,491	3,758	20,371	9,596	2,443,228	125,438	546,299	378,636
Kentucky.....	(D)	(D)	(D)	(D)	762,811	40,137	172,062	120,019
Tennessee.....	59,813	833	4,751	2,271	1,095,847	56,930	247,826	170,545
Alabama.....	(D)	(D)	(D)	(D)	458,015	(D)	99,029	69,087
Mississippi.....	(D)	(D)	(D)	(D)	126,555	6,314	27,382	18,985
West South Central.....	1,006,229	11,262	100,219	40,311	2,012,518	106,780	483,607	333,974
Arkansas.....	(D)	(D)	(D)	(D)	119,083	6,072	40,592	29,050
Louisiana.....	(D)	(D)	(D)	(D)	46,366	2,088	9,868	6,605
Oklahoma.....	(D)	(D)	(D)	(D)	618,225	34,252	147,698	101,933
Texas.....	(D)	(D)	(D)	(D)	1,228,844	64,368	285,449	196,386
West.....	3,626,743	67,854	393,459	178,114	3,477,791	193,146	876,347	581,796
Mountain.....	1,104,855	19,540	112,125	53,886	1,147,244	63,207	268,373	186,513
Montana.....	(D)	(D)	(D)	(D)	141,409	7,427	31,414	20,998
Idaho.....	5,605	88	576	282	93,542	4,745	20,733	14,254
Wyoming.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Colorado.....	726,029	13,124	73,608	35,539	532,882	30,664	129,531	90,242
New Mexico.....	17,126	157	1,823	877	71,911	2,329	16,544	11,591
Arizona.....	(D)	(D)	(D)	(D)	82,665	4,543	18,622	12,702
Utah.....	329,449	5,724	32,711	15,869	215,305	13,012	49,694	35,284
Nevada.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Pacific.....	2,521,888	48,314	281,334	124,228	2,330,547	129,939	607,974	395,283
Washington.....	141,513	2,486	14,548	6,985	429,179	22,882	96,474	65,719
Oregon.....	242,056	4,297	23,165	11,215	186,780	10,303	40,601	28,858
California.....	2,138,319	41,531	243,621	106,028	1,714,588	96,754	470,899	300,706

D Withheld to avoid disclosing figures for individual companies.

¹Includes over 99% of delivered cost of livestock slaughtered in all manufacturing establishments.

SELECTED MATERIALS CONSUMED

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Table 2B.--NUMBER, WEIGHT, AND COST OF POULTRY KILLED IN INDUSTRY 2015, POULTRY DRESSING PLANTS, BY DIVISIONS AND STATES: 1954

Division and State	Chickens and fowl (011531-33)			Turkeys (011535)		
	Quantity	Delivered cost	Live weight	Quantity	Delivered cost	Live weight
	(1,000)	(\$1,000)	(1,000 lbs.)	(1,000)	(\$1,000)	(1,000 lbs.)
Industry, total.....	1887,202	1664,629	2,800,672	235,587	2148,468	2501,822
Northeast.....	131,565	107,983	452,763	1,907	6,642	20,502
New England.....	65,608	53,273	230,111	581	1,453	5,002
Maine.....	33,023	24,840	109,812	521	1,201	4,010
New Hampshire.....	(D)	(D)	(D)	(D)	(D)	(D)
Vermont.....	(D)	(D)	(D)	...	...	...
Massachusetts.....	13,541	11,823	49,400	39	140	664
Rhode Island.....	...	...	...	...	...	...
Connecticut.....	14,133	10,868	48,315	(D)	(D)	(D)
Middle Atlantic.....	65,957	54,710	222,652	1,326	5,189	15,500
New York.....	15,317	14,493	54,793	289	1,257	3,836
New Jersey.....	7,287	5,444	27,858	50	324	720
Pennsylvania.....	43,353	34,772	140,001	987	3,608	10,944
North Central.....	142,560	110,346	488,401	12,806	49,394	168,461
East North Central.....	74,267	59,000	240,314	3,077	14,945	49,500
Ohio.....	24,761	18,578	77,561	1,019	5,107	16,773
Indiana.....	20,658	15,344	61,692	441	2,425	6,981
Illinois.....	15,793	13,647	59,876	321	1,649	4,628
Michigan.....	6,716	6,985	24,531	569	2,598	9,477
Wisconsin.....	6,339	4,445	16,654	727	3,165	11,641
West North Central.....	68,293	51,345	248,087	9,729	34,449	118,961
Minnesota.....	11,023	9,553	52,043	4,013	11,847	41,338
Iowa.....	15,540	12,806	62,968	3,432	12,832	41,664
Missouri.....	24,467	17,468	75,856	359	1,813	6,218
North Dakota.....	(D)	(D)	(D)	(D)	(D)	(D)
South Dakota.....	(D)	(D)	(D)	(D)	(D)	(D)
Nebraska.....	14,050	8,895	44,466	(D)	(D)	(D)
Kansas.....	2,527	1,989	8,929	433	2,313	7,504
South.....	564,840	402,602	1,688,104	10,177	41,719	144,584
South Atlantic.....	350,628	252,430	1,062,897	6,921	28,601	97,767
Delaware.....	55,414	41,716	172,649	524	1,614	4,902
Maryland.....	52,464	41,890	167,779	(D)	(D)	(D)
District of Columbia.....	...	...	...	...	...	...
Virginia.....	40,176	28,329	119,176	3,898	14,521	48,558
West Virginia.....	7,342	5,466	23,468	(D)	(D)	(D)
North Carolina.....	45,022	31,963	132,878	1,264	6,518	25,909
South Carolina.....	3,226	1,746	10,159	318	2,125	6,517
Georgia.....	141,419	97,336	419,000	157	769	2,367
Florida.....	5,565	3,982	17,788	(D)	(D)	(D)
East South Central.....	93,266	64,922	272,549	200	943	2,978
Kentucky.....	2,555	2,061	8,230	(D)	(D)	(D)
Tennessee.....	13,384	10,433	40,543	(D)	(D)	(D)
Alabama.....	43,196	28,767	124,745	72	321	1,039
Mississippi.....	34,131	23,661	99,031	25	120	353
West South Central.....	120,946	85,249	352,658	3,056	12,175	43,839
Arkansas.....	46,912	30,948	133,713	1,199	3,651	14,979
Louisiana.....	4,062	2,428	10,084	(D)	(D)	(D)
Oklahoma.....	9,106	6,614	27,095	(D)	(D)	(D)
Texas.....	60,866	45,258	181,766	1,278	6,033	20,527
West.....	48,237	43,698	171,404	10,697	50,713	168,275
Mountain.....	2,833	2,214	8,919	556	2,439	6,901
Montana.....	...	...	...	...	...	...
Idaho.....	...	...	...	...	...	...
Wyoming.....	(D)	(D)	(D)	(D)	(D)	(D)
Colorado.....	(D)	(D)	(D)	(D)	(D)	(D)
New Mexico.....	...	...	...	...	...	...
Arizona.....	(D)	(D)	(D)	...	...	...
Utah.....	(D)	(D)	(D)	(D)	(D)	(D)
Nevada.....	...	...	...	...	...	...
Pacific.....	45,404	41,483	162,485	10,141	48,274	161,374
Washington.....	7,580	6,062	25,911	626	3,343	10,858
Oregon.....	7,122	5,796	23,782	1,439	6,861	18,310
California.....	30,702	29,625	112,792	8,076	38,070	132,206

D Withheld to avoid disclosing figures for individual companies.

¹Includes over 98% of delivered cost of chicken and fowl slaughtered in all manufacturing establishments.²Includes over 97% of delivered cost of turkey slaughtered in all manufacturing establishments.

MANUFACTURES—SUMMARY STATISTICS

Table 2C.—GRAINS CONSUMED BY DIVISIONS AND STATES: 1954 AND 1947

Division and State	Wheat (011111)				Corn (011115)				Oats (011121)		Barley (011125)	
	1954		1947		1954		1947		1954		1954	
	Quantity (1,000 bushels)	De- livered cost (\$1,000)	Quantity (1,000 bushels)	De- livered cost (\$1,000)	Quantity (1,000 bushels)	De- livered cost (\$1,000)	Quantity (1,000 bushels)	De- livered cost (\$1,000)	Quantity (1,000 bushels)	De- livered cost (\$1,000)	Quantity (1,000 bushels)	De- livered cost (\$1,000)
United States, total.....	526,890	1,263,669	723,459	1,755,057	427,698	706,735	377,356	736,673	159,603	142,816	130,538	198,369
New England.....	1,289	2,711	1,672	4,407	17,391	28,523	6,449	14,284	7,719	7,693	939	1,254
Maine.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
New Hampshire.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Vermont.....	757	1,576	598	1,577	11,351	18,513	(D)	(D)	4,892	5,048	542	729
Massachusetts.....	337	778	415	1,143	4,266	7,021	1,496	3,239	1,796	1,706	253	340
Rhode Island.....	(D)	(D)	...	...	(D)	(D)	(D)	(D)	...	...	...	...
Connecticut.....	(D)	(D)	231	561	264	464	1,025	2,199	(D)	(D)	...	...
Middle Atlantic.....	76,043	192,541	87,704	227,426	41,134	73,910	36,641	77,678	24,671	22,828	11,078	17,000
New York.....	69,648	178,335	77,840	202,213	24,852	44,944	23,050	48,438	17,047	15,333	9,170	14,212
New Jersey.....	1,757	4,154	2,279	6,423	4,333	7,602	2,379	5,375	2,033	2,009	1,293	1,994
Pennsylvania.....	4,638	10,052	7,585	18,790	11,949	21,364	11,212	23,865	5,591	5,486	615	794
East North Central.....	84,903	191,465	88,954	218,989	155,191	244,095	171,364	320,355	24,972	21,482	61,295	100,896
Ohio.....	22,473	45,930	22,719	54,885	21,460	36,157	16,861	35,384	13,469	12,093	2,668	3,454
Indiana.....	(D)	(D)	11,441	28,573	25,376	40,007	30,567	58,246	1,340	1,260	146	181
Illinois.....	34,536	81,784	35,744	87,600	93,090	142,849	107,687	193,694	5,282	4,508	13,325	21,722
Michigan.....	15,749	34,456	13,308	33,471	7,322	12,360	7,193	15,030	182	152	1,777	2,803
Wisconsin.....	(D)	(D)	5,742	14,460	7,943	12,722	9,056	18,001	4,699	3,469	43,379	72,736
West North Central.....	196,972	487,774	308,043	743,231	83,876	131,737	76,545	143,806	47,779	41,721	25,425	39,090
Minnesota.....	59,892	159,677	90,856	229,643	4,491	6,562	3,670	7,384	8,051	6,518	20,402	31,275
Iowa.....	...	...	9,877	24,474	37,043	59,482	40,361	75,128	24,049	21,861	890	1,194
Missouri.....	42,454	102,093	60,862	147,195	30,833	48,172	24,430	45,162	12,762	10,989	3,800	6,209
North Dakota.....	(D)	(D)	11,042	28,002	(D)	(D)	191	364	(D)	(D)	...	...
South Dakota.....	(D)	(D)	1,057	2,217	(D)	(D)	409	734	(D)	(D)	...	...
Nebraska.....	14,896	34,924	17,397	41,702	7,446	11,356	3,820	7,267	(D)	(D)	196	246
Kansas.....	66,160	156,942	116,952	269,998	3,818	5,837	3,664	7,767	1,476	1,177	137	166
South Atlantic.....	17,032	37,412	25,460	66,018	44,859	79,625	20,413	42,020	14,493	13,302	1,579	1,959
Delaware.....	(D)	(D)	140	339	7,923	14,060	(D)	(D)	2,768	2,603	214	264
Maryland.....	2,773	6,508	3,370	8,771	6,542	11,433	(D)	(D)	1,649	1,651	192	221
District of Columbia.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Virginia.....	3,528	7,529	(D)	(D)	6,125	10,701	3,428	7,795	1,863	1,835	344	428
West Virginia.....	(D)	(D)	832	2,044	(D)	(D)	1,470	2,614	(D)	(D)	(D)	(D)
North Carolina.....	5,958	13,058	7,130	18,991	9,729	17,273	3,645	7,626	3,189	2,847	473	619
South Carolina.....	(D)	(D)	1,003	2,022	3,702	830	1,940	1,310	1,062	(D)	(D)	(D)
Georgia.....	2,368	5,252	2,533	6,674	9,351	16,916	3,046	6,443	2,334	1,958	209	256
Florida.....	218	474	173	455	2,088	3,695	(1)	(1)	1,096	1,065	(D)	(D)
East South Central.....	19,605	43,699	25,058	62,637	44,619	74,536	33,032	67,051	14,189	12,321	1,074	1,329
Kentucky.....	(D)	(D)	9,286	23,229	18,521	30,914	17,503	33,265	1,120	1,037	(D)	(D)
Tennessee.....	11,383	25,308	13,463	33,606	11,572	19,210	7,494	16,037	5,660	5,159	816	986
Alabama.....	(D)	(D)	2,023	5,111	11,677	19,677	5,273	11,432	5,567	4,502	(D)	(D)
Mississippi.....	(D)	(D)	286	691	2,849	4,735	2,762	6,317	1,842	1,623	(D)	(D)
West South Central.....	45,216	108,118	84,454	195,610	21,366	36,814	16,874	34,890	16,758	14,305	1,453	1,791
Arkansas.....	(D)	(D)	107	264	4,407	7,252	3,430	6,924	2,342	1,901	(D)	(D)
Louisiana.....	(D)	(D)	90	184	2,970	5,097	2,716	5,241	2,154	1,964	(D)	(D)
Oklahoma.....	21,257	47,535	30,824	68,381	3,137	5,278	2,668	6,233	2,437	2,024	424	517
Texas.....	23,569	59,764	53,433	126,781	10,852	19,187	8,060	16,492	9,825	8,416	891	1,094
Mountain.....	33,275	71,063	37,377	84,191	1,531	2,774	2,115	4,671	1,195	1,119	4,121	5,444
Montana.....	7,557	16,376	9,812	21,363	187	346	87	193	(D)	(D)	(D)	(D)
Idaho.....	3,901	7,881	5,254	11,550	321	591	174	377	295	246	650	914
Wyoming.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Colorado.....	(D)	(D)	(D)	(D)	393	646	1,030	2,129	370	346	487	625
New Mexico.....	376	828	385	924	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Arizona.....	459	1,074	506	1,130	307	612	145	355	251	278	2,330	3,181
Utah.....	10,961	23,238	8,459	20,100	199	356	629	1,491	(D)	(D)	364	409
Nevada.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Pacific.....	52,555	128,926	64,737	152,548	17,731	34,721	13,923	31,918	7,827	8,045	23,574	29,606
Washington.....	22,479	55,929	29,259	68,502	4,486	8,759	1,782	4,354	2,221	2,386	4,861	6,771
Oregon.....	15,548	36,531	17,640	39,166	1,962	3,819	1,032	2,376	1,515	1,482	1,632	2,104
California.....	14,528	36,466	17,838	44,880	11,283	22,143	11,109	25,188	4,091	4,177	17,081	20,731

D Withheld to avoid disclosing figures for individual companies.

¹Not shown because establishments reporting detailed statistics accounted for less than 90 percent of total production for the States.

SELECTED MATERIALS CONSUMED

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Table 2D.—GRAIN MILL PRODUCTS CONSUMED BY DIVISIONS AND STATE: 1954

Division and State	Wheat flour (except semolina and durum flour (204111))		Corn meal (204121)		Hominy feed and meal (204131)		Corn gluten feed and meal (204141)		Mill feed and screenings (205151)	
	Quantity (cwt)	Delivered cost (\$1,000)	Quantity (cwt)	Delivered cost (\$1,000)	Quantity (tons)	Delivered cost (\$1,000)	Quantity (tons)	Delivered cost (\$1,000)	Quantity (tons)	Delivered cost (\$1,000)
United States, total.....	119,259	713,149	12,645	41,374	426,033	24,965	696,547	45,805	2,247,170	106,362
New England.....	6,684	42,012	850	2,950	43,825	2,699	40,919	3,035	97,509	5,265
Maine.....	706	4,786	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
New Hampshire.....	203	1,343	...	...	(D)	(D)	(D)	(D)	(D)	(D)
Vermont.....	147	928	(D)	(D)	28,676	1,772	31,163	2,323	71,493	3,782
Massachusetts.....	3,862	23,324	(D)	(D)	4,787	299	6,427	479	13,018	693
Rhode Island.....	614	4,065	...	...	...	...	...	...	(D)	(D)
Connecticut.....	1,150	7,566	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Middle Atlantic.....	27,304	164,842	4,713	15,313	117,876	7,059	149,528	10,006	226,497	11,684
New York.....	14,108	84,450	3,656	11,604	107,334	6,392	116,984	7,761	129,475	6,380
New Jersey.....	4,043	24,882	(D)	(D)	(D)	(D)	7,560	485	23,332	1,184
Pennsylvania.....	9,153	55,510	(D)	(D)	(D)	(D)	24,984	1,760	73,690	4,120
East North Central.....	27,890	162,446	744	2,939	139,220	7,844	161,973	10,401	454,700	21,074
Ohio.....	7,943	46,643	(1)	(1)	58,348	3,448	67,193	4,429	147,474	7,378
Indiana.....	3,055	19,005	53	240	(D)	(D)	24,204	1,631	81,895	3,946
Illinois.....	9,730	53,691	640	2,533	67,111	3,655	60,768	3,686	142,362	6,278
Michigan.....	5,293	31,719	36	119	(D)	(D)	3,608	264	12,080	556
Wisconsin.....	1,868	11,388	(1)	(1)	(D)	(D)	6,200	391	70,889	2,916
West North Central.....	11,518	65,959	1,937	5,907	43,231	2,255	126,630	7,379	660,244	28,479
Minnesota.....	1,911	11,325	(D)	(D)	(D)	(D)	10,239	676	115,698	4,739
Iowa.....	1,608	9,385	359	1,158	(D)	(D)	23,534	1,517	143,602	6,763
Missouri.....	4,328	24,421	(D)	(D)	31,350	1,628	53,416	3,115	245,929	10,646
North Dakota.....	330	1,952	...	...	...	...	...	...	(D)	(D)
South Dakota.....	319	1,799	(D)	(D)	...	...	(D)	(D)	(D)	(D)
Nebraska.....	1,213	7,148	84	403	11,320	598	34,549	1,739	65,540	2,669
Kansas.....	1,807	9,929	(D)	(D)	(D)	(D)	(D)	(D)	80,903	3,272
South Atlantic.....	13,807	86,510	656	2,139	34,595	2,132	100,404	7,047	151,421	8,652
Delaware.....	234	1,480	(D)	(D)	(D)	(D)	24,258	1,822	18,809	978
Maryland.....	1,814	11,523	(D)	(D)	(D)	(D)	9,020	623	19,367	1,170
District of Columbia.....	868	5,531	...	...	...	...	(D)	(D)	...	...
Virginia.....	1,792	11,261	(D)	(D)	1,975	125	14,405	974	22,286	1,200
West Virginia.....	1,123	7,291	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
North Carolina.....	2,261	14,333	(D)	(D)	4,701	299	18,992	1,299	35,203	2,022
South Carolina.....	672	4,465	(D)	(D)	(D)	(D)	3,819	241	(D)	(D)
Georgia.....	3,225	19,161	(D)	(D)	13,435	845	20,024	1,448	30,759	1,894
Florida.....	1,816	11,465	(D)	(D)	2,573	161	9,000	586	15,725	898
East South Central.....	6,523	39,757	2,169	6,993	22,192	1,267	64,523	4,513	143,990	7,075
Kentucky.....	1,642	9,887	61	269	6,770	391	12,767	878	44,965	2,346
Tennessee.....	3,064	18,511	(D)	(D)	10,807	625	41,538	2,928	55,492	2,647
Alabama.....	1,153	7,311	(D)	(D)	(D)	(D)	4,427	320	18,214	948
Mississippi.....	661	4,013	(D)	(D)	(D)	(D)	5,791	387	25,319	1,134
West South Central.....	9,570	56,154	1,237	3,978	11,045	661	44,349	2,848	173,084	8,271
Arkansas.....	729	4,301	(D)	(D)	(D)	(D)	6,515	352	18,567	972
Louisiana.....	1,793	11,114	(D)	(D)	(D)	(D)	6,631	482	11,459	584
Oklahoma.....	1,040	5,890	(D)	(D)	(D)	(D)	3,997	246	35,379	1,584
Texas.....	6,007	34,849	(D)	(D)	9,947	598	27,206	1,768	107,679	5,131
Mountain.....	3,099	18,127	211	644	...	...	2,572	167	49,077	2,046
Montana.....	252	1,476	...	...	...	...	...	...	(D)	(D)
Idaho.....	215	1,309	...	...	...	...	(D)	(D)	6,180	285
Wyoming.....	63	363	(D)	(D)	...	...	...	...	(D)	(D)
Colorado.....	1,245	6,958	(D)	(D)	...	...	(D)	(D)	17,377	738
New Mexico.....	207	1,278	(D)	(D)	...	...	(D)	(D)	(D)	(D)
Arizona.....	473	3,012	(D)	(D)	...	...	(D)	(D)	(D)	(D)
Utah.....	579	3,348	(D)	(D)	...	...	(D)	(D)	(D)	(D)
Nevada.....	60	383	(D)	(D)	...	...	...	...	...	...
Pacific.....	12,864	77,342	128	511	14,049	1,048	5,649	406	290,648	13,816
Washington.....	1,556	9,263	(D)	(D)	(D)	(D)	(D)	(D)	74,529	3,213
Oregon.....	1,523	8,545	(D)	(D)	(D)	(D)	(D)	(D)	55,396	2,398
California.....	9,784	59,534	113	449	(D)	(D)	4,131	293	160,723	8,205

D Withheld to avoid disclosing figures for individual companies.

1 Less than \$100 thousand.

MANUFACTURES—SUMMARY STATISTICS

Table 2E.—FEED MATERIALS CONSUMED BY DIVISIONS AND STATES: 1954

Division and State	Fin fish, round (091211)		Meat scrap and tankage (201021)		Fish scrap and meal (203211)	
	Quantity (tons)	Delivered cost (\$1,000)	Quantity (tons)	Delivered cost (\$1,000)	Quantity (tons)	Delivered cost (\$1,000)
United States, total.....	443,008	153,836	1,087,525	101,714	346,772	50,699
New England.....	93,462	30,507	27,627	2,719	28,414	3,943
Maine.....	15,167	4,584	(D)	(D)	(D)	(D)
New Hampshire.....	...	...	(D)	(D)	(D)	(D)
Vermont.....	...	...	11,994	1,192	12,904	1,810
Massachusetts.....	78,295	25,923	11,254	1,103	8,375	1,184
Rhode Island.....	...	...	(D)	(D)	(D)	(D)
Connecticut.....	...	...	(D)	(D)	(D)	(D)
Middle Atlantic.....	33,589	14,524	145,094	13,115	35,003	5,106
New York.....	27,356	11,847	100,340	8,982	22,165	3,309
New Jersey.....	(D)	(D)	13,424	1,270	3,324	380
Pennsylvania.....	(D)	(D)	31,330	2,863	9,514	1,417
East North Central.....	7,172	2,190	295,969	28,047	75,618	11,466
Ohio.....	(D)	(D)	74,492	6,966	22,475	3,520
Indiana.....	...	...	41,531	4,011	12,994	1,920
Illinois.....	5,320	1,845	157,486	14,916	35,498	5,299
Michigan.....	(D)	(D)	4,270	390	525	74
Wisconsin.....	(D)	(D)	18,190	1,764	4,126	653
West North Central.....	...	...	254,853	23,374	57,406	8,598
Minnesota.....	...	...	49,995	4,501	9,687	1,451
Iowa.....	...	...	93,752	8,687	15,721	2,418
Missouri.....	...	...	54,478	5,216	19,685	2,917
North Dakota.....	...	...	(D)	(D)	...	...
South Dakota.....	...	...	(D)	(D)	717	107
Nebraska.....	...	...	(D)	(D)	6,510	927
Kansas.....	...	...	34,712	2,775	5,086	778
East South Central.....	(D)	(D)	60,063	5,510	26,002	3,875
Kentucky.....	...	...	7,191	734	5,100	744
Tennessee.....	...	...	31,310	2,896	16,221	2,440
Alabama.....	...	...	16,631	1,416	(D)	(D)
Mississippi.....	(D)	(D)	4,931	464	(D)	(D)
West South Central.....	(D)	(D)	54,740	4,764	20,002	2,865
Arkansas.....	...	...	3,048	274	(D)	(D)
Louisiana.....	(D)	(D)	2,197	197	(D)	(D)
Oklahoma.....	...	...	10,770	1,009	1,499	222
Texas.....	(D)	(D)	38,725	3,284	14,286	2,050
South Atlantic.....	10,335	3,125	127,007	11,740	46,021	6,465
Delaware.....	...	...	(D)	(D)	10,959	1,467
Maryland.....	5,857	1,611	10,015	1,006	6,300	863
District of Columbia.....	...	...	(D)	(D)	(D)	(D)
Virginia.....	1,472	553	18,339	1,765	4,545	649
West Virginia.....	...	...	(D)	(D)	(D)	(D)
North Carolina.....	(D)	(D)	34,390	3,046	12,939	1,844
South Carolina.....	...	...	4,826	460	1,901	269
Georgia.....	(D)	(D)	19,799	1,892	8,769	1,285
Florida.....	(D)	(D)	29,902	2,676	(D)	(D)
Mountain.....	...	...	11,607	1,178	2,615	410
Montana.....	...	...	(D)	(D)	(D)	(D)
Idaho.....	...	...	2,147	234	(D)	(D)
Wyoming.....	...	...	(D)	(D)	(D)	(D)
Colorado.....	...	...	4,243	409	(D)	(D)
New Mexico.....	...	...	(D)	(D)	...	...
Arizona.....	...	...	1,747	184	(D)	(D)
Utah.....	...	...	(D)	(D)	(D)	(D)
Nevada.....	...	...	(D)	(D)	(D)	(D)
Pacific.....	296,328	102,750	110,565	11,267	55,691	7,971
Washington.....	59,965	24,214	15,760	1,640	9,103	1,263
Oregon.....	24,325	9,342	11,270	1,174	4,309	695
California.....	212,038	69,194	83,535	8,453	42,279	6,013

(D) Withheld to avoid disclosing figures for individual companies.

SELECTED MATERIALS CONSUMED

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Table 2F.—REFINED SUGAR (CANE-BEET) AND SHORTENING CONSUMED BY DIVISIONS AND STATE: 1954

Division and State	Sugar (Cane and Beet) (206011)		Shortening (209211)	
	1954		1954	
	Quantity pounds (cwt)	Delivered cost (\$1,000)	Quantity pounds (cwt)	Delivered cost (\$1,000)
United States, total.....	74,056,708	641,826	354,713	76,337
New England.....	3,572,746	31,317	26,090	5,741
Maine.....	188,250	1,692	2,264	490
New Hampshire.....	97,991	862	971	213
Vermont.....	141,635	1,230	275	67
Massachusetts.....	2,556,341	22,335	15,788	3,522
Rhode Island.....	196,437	1,750	3,035	596
Connecticut.....	392,092	3,448	3,757	853
Middle Atlantic.....	20,648,147	176,447	105,667	22,779
New York.....	9,977,323	83,817	53,699	11,511
New Jersey.....	4,325,090	37,023	19,603	4,059
Pennsylvania.....	6,345,734	55,607	32,365	7,209
East North Central.....	18,509,932	162,683	82,474	17,748
Ohio.....	3,344,234	30,230	24,661	5,535
Indiana.....	1,547,335	13,440	4,618	1,076
Illinois.....	9,961,820	86,727	27,865	5,929
Michigan.....	2,372,507	20,894	19,623	3,984
Wisconsin.....	1,284,036	11,392	5,707	1,224
West North Central.....	4,592,317	40,567	21,612	4,596
Minnesota.....	639,430	5,851	3,392	796
Iowa.....	721,128	6,338	2,091	473
Missouri.....	1,866,495	16,220	8,880	1,852
North Dakota.....	58,518	547	1,331	255
South Dakota.....	125,011	1,091	1,569	287
Nebraska.....	687,741	6,073	1,474	312
Kansas.....	493,994	4,447	2,875	621
South Atlantic.....	7,955,871	68,908	42,250	8,861
Delaware.....	36,378	326	(D)	(D)
Maryland.....	2,141,669	17,973	5,745	1,255
District of Columbia.....	131,528	1,152	2,522	548
Virginia.....	960,489	8,460	7,513	1,455
West Virginia.....	315,813	2,849	2,421	527
North Carolina.....	1,024,086	8,999	8,088	1,767
South Carolina.....	344,073	3,011	(D)	(D)
Georgia.....	2,068,628	18,236	9,229	1,940
Florida.....	933,207	7,902	5,086	1,022
East South Central.....	2,851,371	24,747	12,562	2,734
Kentucky.....	943,805	8,269	3,907	816
Tennessee.....	935,134	8,155	4,725	1,007
Alabama.....	657,445	5,678	3,330	775
Mississippi.....	314,987	2,645	600	136
West South Central.....	5,121,477	44,208	17,608	3,628
Arkansas.....	396,524	3,397	1,091	230
Louisiana.....	1,400,080	11,865	3,456	751
Oklahoma.....	401,012	3,515	2,386	497
Texas.....	2,923,861	25,431	10,675	2,150
Mountain.....	1,020,447	9,354	9,834	2,058
Montana.....	65,962	637	1,382	362
Idaho.....	78,401	723	551	126
Wyoming.....	23,813	208	(D)	(D)
Colorado.....	430,638	3,933	6,125	1,162
New Mexico.....	90,594	826	328	70
Arizona.....	123,839	1,132	379	86
Utah.....	188,603	1,727	815	188
Nevada.....	18,597	168	(D)	(D)
Pacific.....	9,784,400	83,595	36,616	8,192
Washington.....	1,039,310	9,137	4,090	917
Oregon.....	651,337	5,655	2,487	541
California.....	8,093,753	68,803	30,039	6,734

D Withheld to avoid disclosing figures for individual companies.

MANUFACTURES—SUMMARY STATISTICS

Table 2G.—GREEN COFFEE (011251) CONSUMED BY DIVISION AND STATE: 1954

Division and State	Quantity (cwt)	Value (\$1,000)	Division and State	Quantity (cwt)	Value (\$1,000)
United States, total.....	20,284,058	1,466,532	South Atlantic—Continued		
New England.....	644,022	47,989	District of Columbia.....	189,433	14,000
Maine.....	...	...	Virginia.....	112,971	7,710
New Hampshire.....	...	...	West Virginia.....	(D)	(D)
Vermont.....	...	...	North Carolina.....	(D)	(D)
Massachusetts.....	629,109	46,891	South Carolina.....	(D)	(D)
Rhode Island.....	(D)	(D)	Georgia.....	32,793	2,759
Connecticut.....	(D)	(D)	Florida.....	638,934	45,678
Middle Atlantic.....	7,114,383	515,232	East South Central.....	637,877	47,168
New York.....	2,207,063	167,272	Kentucky.....	(D)	(D)
New Jersey.....	4,403,188	310,826	Tennessee.....	303,363	22,288
Pennsylvania.....	504,132	37,134	Alabama.....	189,358	14,492
East North Central.....	2,923,137	205,140	Mississippi.....	(D)	(D)
Ohio.....	962,842	67,086	West South Central.....	2,769,498	191,310
Indiana.....	(D)	(D)	Arkansas.....	(D)	(D)
Illinois.....	1,842,784	129,849	Louisiana.....	605,595	37,900
Michigan.....	103,442	7,113	Oklahoma.....	(D)	(D)
Wisconsin.....	(D)	(D)	Texas.....	2,054,132	144,625
West North Central.....	1,582,376	120,794	Mountain.....	63,318	4,422
Minnesota.....	128,048	9,271	Montana.....	...	...
Iowa.....	(D)	(D)	Idaho.....	...	...
Missouri.....	968,684	67,024	Wyoming.....	...	...
North Dakota.....	...	...	Colorado.....	(D)	(D)
South Dakota.....	...	...	New Mexico.....	...	...
Nebraska.....	(D)	(D)	Arizona.....	(D)	(D)
Kansas.....	(D)	(D)	Utah.....	(D)	(D)
South Atlantic.....	1,435,137	102,655	Nevada.....	...	...
Delaware.....	...	...	Pacific.....	3,114,310	231,810
Maryland.....	368,485	26,679	Washington.....	29,609	1,986
			Oregon.....	200,738	16,391
			California.....	2,883,963	213,433

D Withheld to avoid disclosing figures for individual companies.

Textile Materials

This section includes comments on materials consumed by establishments in Major Group 22, Textile Mill Products and Major Group 23, Apparel and Related Products.

MAJOR GROUP 22--TEXTILE MILL PRODUCTS

Inquiries on consumption of materials for a major portion of the Textile Mill Products industries were not included on the 1954 Census of Manufactures questionnaires because of the existence of adequate statistics in the Census Bureau's Facts for Industry (FFI) series. The publications which include such consumption data are as follows:

Spinning Mills:
 FFI Series M22P - Cotton, Man-Made Fiber, Staple and Linters
 M22D - Wool Consumption and Stocks

Weaving and Tufting Mills:
 FFI Series M22T-1 - Cotton Broad Woven Goods
 M22T-2 - Broad Woven Goods - Man-Made Fibers
 M22T-4 - Tire Cord and Fabrics
 M22L - Tufted Textile Products

Knitting Mills:

FFI Series M22K - Knit Cloth for Sale
 M23A - Apparel

The table, "Consumption of Raw Cotton" included in both this chapter and the industry volume, is based on data obtained from the Facts for Industry surveys.

MAJOR GROUP 23--APPAREL AND RELATED PRODUCTS

No inquiries on consumption of the materials (piece goods) used by apparel manufacturers were included in the 1954 Census of Manufactures questionnaires. The principal reason for this omission is that the consumption records maintained by apparel manufacturers did not appear to provide a breakdown into statistically useful categories (i.e., separate yardage figures for cotton, rayon, wool, etc. goods).

For many products, the Census of Manufactures statistics on production of garments (table 6A in the Industry Volume) provide a basis for an approximate conversion to the quantities of materials used, by principal fiber component.

CONSUMPTION OF RAW COTTON BY INDUSTRY AND STATE
 (Domestic cotton in running bales; foreign cotton in 500-lbs equivalent gross bales)

Division and state	Total, all industries	Industry and industry group							
		Thread mills (S.I.C. 2223)	Yarn mills, cotton system (Census Code 2224) ⁵	Cotton broad-woven fabrics (Census Code 2233)	Synthetic broad-woven fabrics (Census Code 2234)	Knitting mills (S.I.C. 2251-9)	Miscellaneous textile goods (S.I.C. 2291-9)	Household furniture (S.I.C. 2511-9)	All other industries
United States, total.	8,530,113	110,212	1,746,015	6,419,974	101,209	54,877	60,321	6,515	30,990
New England.....	467,460	(2)	37,386	393,750	15,570	...	3,255	...	(2)
Maine.....	172,288	...	(2)	(4)	...	...	...	...	...
New Hampshire.....	35,566	...	...	(4)	...	...	(1)	...	(2)
Vermont.....		...	...	...	...	...	...	...	...
Massachusetts.....	174,484	(1)	(3)	132,294	(3)	...	(2)	...	(2)
Rhode Island.....	49,787	(2)	...	(4)	(2)	...	(1)	...	...
Connecticut.....	35,335	...	(3)	(3)	(2)	...	(1)	...	(2)
Middle Atlantic.....	23,499	...	(2)	(3)	...	...	(2)	(1)	(2)
New York.....	5,819	...	(2)	(2)	...	...	(2)	...	(1)
New Jersey.....	(3)	...	...	(2)	...	...	...	...	(2)
Pennsylvania.....	(2)	...	...	(2)	...	...	...	(1)	(2)
North Central.....	22,982	...	(2)	(2)	...	...	(1)	(2)	(2)
Illinois.....	15,887	...	(2)	...	...	...	(1)	(3)	(2)
South.....	8,008,666	(4)	1,695,326	6,010,456	85,639	54,877	52,956	2,680	(2)
Maryland.....	(3)	...	...	(3)	...	...	(1)	...	...
Virginia.....	200,261	...	...	(4)	...	...	...	(1)	...
North Carolina.....	2,383,736	(3)	1,031,671	1,285,142	(3)	(3)	(3)	...	(2)
South Carolina.....	2,277,764	45,015	77,882	2,134,546	(3)	...	...	...	(1)
Georgia.....	1,685,078	(3)	355,494	1,249,531	(4)	(2)	...	(1)	...
Kentucky.....	8,129	...	(2)	(2)	...	...	(1)	(1)	...
Tennessee.....	177,636	(3)	(3)	103,272	...	33,522	(2)	(1)	...
Alabama.....	993,231	...	(4)	767,776	...	...	(4)	(1)	...
Mississippi.....	40,743	...	...	(4)	...	(2)	...	(1)	...
Arkansas.....	30,255	...	(2)	(3)	...	...	...	...	...
Louisiana.....	(4)	...	...	(4)	...	...	...	(1)	...
Oklahoma.....	(3)	...	...	(3)	...	...	...	(1)	...
Texas.....	137,744	...	...	130,194	...	...	(2)	2,226	(1)
West.....	7,506	...	(2)	...	...	...	(2)	(2)	...
California.....	6,709	...	(2)	...	...	...	(2)	(1)	...

Note: These data are based on monthly reports on Census Form ML5P. Individual states are shown where total consumption was over 3,000 bales. Where the data are withheld to avoid disclosing information for individual companies, the figures shown below have been used to indicate consumption-size ranges:

¹Less than 1,000 bales.

²1,000 to 9,999 bales.

³10,000 to 24,999 bales.

⁴25,000 or more bales.

⁵Includes some establishments classified in Industry 2298, Cordage and Twine.

Pulpwood, Wood Pulp, Paper and Paperboard

This section includes data on materials primarily consumed by establishments classified in Major Group 26, Pulp, Paper and Products Industries and Major Group 27, Printing and Publishing. Comments on individual materials or groups of materials are shown below:

Pulpwood

Data on the quantity and cost of pulpwood consumed by the pulp mill industry represent 100 percent coverage of this material.

Wood Pulp

Data on the quantity and cost of wood pulp consumed as shown in table 1A account for approximately 99 percent of the total supply. The distribution of these data by States (table 2A), however, has been limited to the use of wood pulp by the Paper and Board Industries (S.I.C. 2612 and 2613) in order to avoid disclosing figures for the individual companies in the other industries. The Paper and Board Industries account for approximately 95 percent of the total annual supply of wood pulp. For more detailed information on the consumption of pulpwood and wood pulp by States, see Industry Bulletin MC-26A, "Pulp, Paper and Board."

Paper and Board

The data on the quantity and cost of the paper and paperboard grades consumed as shown in table 1B are exclusive of building paper and board grades, and account for approximately 81 percent of the total supply of paper and board. Of the balance, approximately 6 million tons, more than one-half or about 3.5 million tons were consumed in the manufacture of roofing, siding, floor covering, insulating and related building materials. The remainder (2.5 million tons) is largely accounted for by plants engaged in making set-up boxes in the packaging of their products, by other manufacturing industries for which specific consumption data were not requested, and by sales directly to wholesalers who may further convert as well as consumers who do not further convert the products.

An analysis of the schedules revealed that the grade detail requested, i.e., "Groundwood (uncoated)," "paper-machine coated," "Book (uncoated)," "Fine," "Coarse" and "Special Industrial" paper were not always available in some industries. For other industries, specific grades were not important and, as a result, detailed grade information was not reported. Therefore, it was not possible to publish quantity and cost information on a uniform basis for all consuming industries from which consumption data were collected.

The consumption statistics for the printing and publishing industries included in this table represent the amount of paper consumed by the several printing and publishing industries. In 1947, the corresponding materials consumed table (Volume I, table 7, page 231) summarized consumption on the basis of products produced (newspapers, periodicals, books, etc.) without regard to the industry classification of the reporting establishments.

In table 2B, "Newsprint Consumed in Publishing, by Divisions and States: 1954," it was necessary to assign the newsprint consumption data reported by the newspaper, periodical and other publishing industries to the State in which the publisher was located, although the newsprint may have been consumed by printers located in a different State from that of the publisher. This limitation does not seriously affect the usefulness of the data as the total quantity of newsprint consumed by printers for publishers accounted for less than 5 percent of the total reported consumption of newsprint in publishing. For earlier published information on the consumption of paper in the printing of publications (newspapers, periodicals, books, etc.) and other products, see Census of Manufactures Bulletins MC-27A, Newspapers, Periodicals, Books, and Miscellaneous Publishing, and MC-27B, Commercial Printing, Lithographing, Greeting Cards, Bookbinding and Related Industries.

The classifications of paper and board used in the collection of consumption data from paper and paperboard converters are not entirely consistent with those used in collecting these consumption statistics from printers and publishers. Therefore, the grade detail shown for these two groups are not always additive.

These data contain a relatively small amount of duplication. This duplication arises from the fact that the product of one paper consuming industry may be the material of another industry. For example, establishments engaged in coating paper consumed 231,745 tons of paper (base stock) in producing 258,664 tons of coated paper. This coated paper is reported as a material consumed by other industries, such as the printing and publishing industries, and, therefore, the weight of the base stock before coating enters twice into these consumption figures. This duplication does not arise in the case of paper-machine coated paper which is coated as part of the primary paper making process. There is also a small amount of duplication in the consumption of waxed paper. However, it is believed that the amount of duplication contained in these figures is less than 2.5 percent of the total.

SELECTED MATERIALS CONSUMED

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Table 1A.—PULPWOOD AND WOODPULP CONSUMED, BY INDUSTRY: 1954 and 1947

Code	Consuming industry and description of materials	Consumption of materials received from other establishments		
		1954		1947
		Quantity	Delivered cost (\$1,000)	Quantity
	Pulpwood cords of 128 cu. ft.			
2611	Pulp mills.....	29,270,871	572,867	¹ 19,345,311
	Wood pulp short tons of 2,000 lbs. air-dry basis.....	19,732,223	1,717,686	13,833,835
2612	Paper and paperboard mills.....	17,352,527	1,516,978	² 13,285,435
261111	Own wood pulp ³	14,711,700	1,179,623	(NA)
261115	Purchased (market) wood pulp.....	2,640,827	337,355	(NA)
2613	Building paper and board mills.....	1,636,632	64,598	(²)
261111	Own wood pulp ³	1,555,960	59,852	(NA)
261115	Purchased (market) wood pulp.....	80,672	4,746	(NA)
2694	Pulp goods, pressed and molded.....	41,897	3,167	26,566
2699	Paperboard products, n.e.c.....	16,616	1,724	13,795
2823	Plastics materials:			
261115	Purchased (market) wood pulp.....	179,233	33,190	108,592
2825	Synthetic fibers:			
261115	Purchased (market) wood pulp.....	472,179	92,795	399,447
2826	Explosives:			
261115	Purchased (market) wood pulp.....	33,139	5,234	(NA)

Note: Pulpwood quantity data for 1954 and 1947 are not strictly comparable because the data for 1954 were requested on a roughwood basis and the totals for 1947 combined quantities on a roughwood and a peeled and rossed basis. For 1947, of the 19,345,311 cords reported in total, roughwood amounted to 16,891,955 cords.

NA Not available.

¹Cost of pulpwood consumed, \$344,959 thousand.

²Data for Industry 2613, Building Paper and Board Mills, not available separately and are included in the data shown for Industry 2612, Paper and Paperboard Mills.

³Includes wood pulp produced at same location and at affiliated pulp mills of the same company.

Table 1B.—PAPER AND PAPERBOARD CONSUMED BY THE PAPER AND PAPERBOARD CONVERTING INDUSTRIES: 1954 and 1947

Code	Description of materials	All paper converting industries, total		Paper coating and glazing (S.I.C. 2641)			Envelopes (S.I.C. 2651)					
		1954		1947	1954		1947	1954		1947		
		Quantity	Delivered cost	Quantity	Quantity	Delivered cost	Quantity	Quantity	Delivered cost	Quantity		
		(Short tons of 2,000 lbs.)	(\$1,000)	(Short tons of 2,000 lbs.)	(Short tons of 2,000 lbs.)	(\$1,000)	(Short tons of 2,000 lbs.)	(Short tons of 2,000 lbs.)	(\$1,000)	(Short tons of 2,000 lbs.)		
	Consumption of paper and paper-board, total.....	¹ 15,466,461	¹ 2,310,572	12,122,521	768,633	184,000	870,664	282,009	68,575	(NA)		
261211	Paper.....	¹ 4,977,970	¹ 1,006,651	3,910,344	756,030	181,873	801,255	267,867	66,821	250,787		
261213	Newsprint.....			18,331	...	...	...	...	...	...
261214	Groundwood (uncoated)	(2)	(2)	768,544	{	24,219	3,969	{	259,216	64,614	249,175	
261214	Paper-machine-coated.			74,729		22,910	319,124					
261215	Book (uncoated).....			241,774		46,834						
261217	Fine.....			12,403		3,793	5,614					
261219	Coarse.....			2,007,887	{	368,231	95,169	{	416,512	8,651	2,207	³ 1,612
261221	Special industrial ³ ..	375,105		33,656								
261223	Sanitary tissue stock	² 1,219,298	² 260,317	764,653	4,550	835	9,981	
261225	Tissue paper except sanitary and thin...	² 100,760	² 26,007	115,148	30,124	8,363	46,368	
261231	Paperboard.....	¹ 10,488,491	¹ 1,303,921	8,212,177	12,603	2,127	69,409	14,142	1,754	(NA)		
261233	Container board.....	⁴ 6,300,908	⁴ 735,086	4,804,320	{	12,603	2,127	69,409	14,142	1,754	(NA)	
261233	Bending board.....	⁴ 3,107,949	⁴ 447,855	2,364,400								
261235	Nonbending board.....	⁴ 461,231	⁴ 47,000	545,840								
261237	Special paperboard and cardboard.....	579,175	68,648	497,617								

See footnotes at end of table.

Table 1B.—PAPER AND PAPERBOARD CONSUMED BY THE PAPER AND PAPERBOARD CONVERTING INDUSTRIES: 1954 and 1947—Continued

Code	Description of materials	Paper bags (S.I.C. 2661)		Paperboard boxes (S.I.C. 2671)		Fiber cans, tubes, drums, etc. (S.I.C. 2674)			
		1954		1947	1954		1947	1954	
		Quantity (Short tons of 2,000 lbs.)	Delivered cost (\$1,000)	Quantity (Short tons of 2,000 lbs.)	Quantity (Short tons of 2,000 lbs.)	Delivered cost (\$1,000)	Quantity (Short tons of 2,000 lbs.)	Quantity (Short tons of 2,000 lbs.)	Delivered cost (\$1,000)
	Consumption of paper and paper- board, total.....	1,740,699	277,372	(NA)	8,807,542	1,068,830	(NA)	346,766	36,537
	Paper.....	1,728,216	275,921	(NA)	116,747	30,260	(NA)	6,442	1,407
261211	Newsprint.....	(D)	(D)	...	2,567	362	3,292		
261213	Groundwood (uncoated).....	(D)	(D)						
261214	Paper-machine-coated.....	6,268	2,221	(D)					
261215	Book (uncoated).....	(D)	(D)		99,299	26,032	105,216		
261217	Fine.....	5,359	1,976	2,399				6,442	1,407
261219	Coarse.....	1,702,828	268,015	1,177,479					
261221	Special industrial ³	7,746	2,270	...	10,371	2,980	34,831		
261223	Sanitary tissue stock.....	...	...	(D)	(D)	(D)	(D)		
261225	Tissue paper, except sanitary and thin...	(D)	(D)	(D)	(D)	(D)	143		
261231	Paperboard.....	12,483	1,451	(NA)	8,690,795	1,038,570	7,029,507	340,324	35,130
261233	Container board.....				6,205,344	723,888	4,680,139	33,745	3,189
261235	Bending board.....				2,015,127	264,794	1,847,823	39,782	3,612
261237	Nonbending board.....	12,483	1,451	(NA)	374,945	38,408	475,762	8,110	868
	Special paperboard and cardboard.....				95,379	11,480	25,783	258,687	27,461
									183,266
Code	Description of materials	Die-cut paper and board (S.I.C. 2691)		Wallpaper (S.I.C. 2693)					
		1954		1947	1954		1947		
		Quantity (Short tons of 2,000 lbs.)	Delivered cost (\$1,000)	Quantity (Short tons of 2,000 lbs.)	Quantity (Short tons of 2,000 lbs.)	Delivered cost (\$1,000)	Quantity (Short tons of 2,000 lbs.)	Delivered cost (\$1,000)	Quantity (Short tons of 2,000 lbs.)
	Consumption of paper and paperboard, total.....	417,858	70,922	(NA)	59,626	10,766	127,783		
	Paper.....	161,502	39,069	(NA)	59,626	10,766	127,783		
261211	Newsprint.....	...	...	(D)	...	...	...
261213	Groundwood (uncoated).....				55,509	9,789	126,623		
261214	Paper-machine-coated.....								
261215	Book (uncoated).....								
261217	Fine.....	41,677	10,952	29,279					
261219	Coarse.....				4,117	977	1,160		
261221	Special industrial ³	116,977	27,233	29,746					
261223	Sanitary tissue stock.....	...	...	(D)					
261225	Tissue paper except sanitary and thin.....	2,848	884	(D)					
261231	Paperboard.....	256,356	31,853	(NA)	...	...	...
261233	Container board.....	11,391	1,602	(D)					
261235	Bending board.....	69,650	9,217	42,774					
261237	Nonbending board.....	48,428	4,701	(NA)					
	Special paperboard and cardboard.....	126,887	16,333	(NA)					

See footnotes at end of table.

SELECTED MATERIALS CONSUMED

210-19

Table 1B.—PAPER AND PAPERBOARD CONSUMED BY THE PAPER AND PAPERBOARD CONVERTING INDUSTRIES: 1954 and 1947—Continued

Code	Description of materials	Paper and board products, n.e.c. (S.I.C. 2699)		
		1954		1947
		Quantity (Short tons of 2,000 lbs.)	Delivered cost (\$1,000)	Quantity (Short tons of 2,000 lbs.)
	Consumption of paper and paperboard, total.....	3,042,751	593,570	2,117,238
	Paper.....	1,880,963	400,534	1,337,775
261211	Newsprint.....	23,192	3,068	14,023
261213	Groundwood (uncoated).....	43,883	8,672	
261214	Paper-machine-coated.....	25,904	7,761	109,797
261215	Book (uncoated).....	83,573	19,882	
261217	Fine.....	98,149	28,790	95,257
261219	Coarse.....	277,212	48,667	295,338
261221	Special industrial ³	46,514	12,002	34,664
261223	Sanitary tissue stock.....	1,214,748	254,932	720,471
261225	Tissue paper, except sanitary and thin.....	67,788	16,760	68,225
	Paperboard.....	1,161,788	193,036	779,463
261231	Container board.....	50,428	6,407	84,683
261233	Bending board.....	983,390	170,232	447,254
261235	Nonbending board.....	29,748	3,023	56,992
261237	Special paperboard and cardboard.....	98,222	13,374	190,534

NA Not available.

D Withheld to avoid disclosing figures for individual companies.

¹Includes 577 tons at a cost of less than \$100 thousand reported by Industry 2694, "Pulp Goods Pressed and Molded" for which no grade detail is available. In addition to the consumption of paper and paperboard reported by grades for paper and paperboard converting industries, the following consumption data for 1954 have been reported by Industry 2274, "Hard Surface Floor Coverings" and Industry 2952, "Roofing Felts and Coatings."

Code	Industry and material	Quantity (Short tons of 2,000 lbs.)	Delivered cost (\$1,000)
2274	Paper Felts.....	108,193	9,481
2952	Building Paper.....	946,497	(NA)

²Total consumption of paper for all converting industries in detail is not available for all grades of paper; for tissue grades more than 95 percent of total consumption is accounted for by Industry 2699, "Paper and Board Products, N.E.C."

³Does not include a small amount of "absorbent" paper reported separately for 1947. The 1954 data for "Special Industrial" paper include "absorbent" paper.

⁴Sum of the detail shown for paperboard does not equal the total shown by an amount less than 5 percent because detailed grade consumption was not available for some of the lesser important consuming industries. Important consuming industries (2671, 2674, 2691, and 2699) account for the total shown.

MANUFACTURES—SUMMARY STATISTICS

Table 1C.—PAPER AND PAPERBOARD CONSUMED, BY THE PRINTING AND PUBLISHING INDUSTRIES: 1954

Code	Industry	Total		Type of paper and board, except building					
				Newsprint (261211)		Groundwood paper (uncoated) (261213)			
		Quantity	Cost	Quantity	Cost	Quantity	Cost		
		(Short tons of 2,000 lbs.)	(\$1,000)	(Short tons of 2,000 lbs.)	(\$1,000)	(Short tons of 2,000 lbs.)	(\$1,000)		
	Printing and publishing, total.....	19,610,173	1,919,759	25,903,252	2768,402	2465,958	483,668		
2711	Newspapers.....	15,338,959	719,697	5,262,177	682,861	61,194	8,590		
2721	Periodicals.....	1,118,668	241,254	221,992	29,581	83,768	15,238		
2731	Books: publishing and printing.....	1277,388	72,100	5,049	730	25,115	4,044		
2732	Book printing.....	1113,192	45,219	6,496	925	13,729	2,509		
2741	Miscellaneous publishing.....	89,197	19,163	42,879	5,969	8,885	1,867		
2751	Commercial printing.....	11,724,160	557,944	336,956	44,231	205,216	39,447		
2761	Lithographing.....	710,409	196,790	16,756	2,441	49,904	8,056		
2771	Greeting cards.....	82,708	26,973	1,780	262	1,482	352		
2781	Bookbinding.....	21,448	5,627	...	...	42,022	4551
2782	Blankbooks and paper ruling.....	85,663	21,410	8,961	1,359	13,740	2,832		
2783	Library and loose leaf binders and devices....	43,031	12,369	...	...	3903	182
2789	Miscellaneous bookbinding work.....	5,350	1,213	6206	643	(6)	(6)		
Type of paper and board, except building—Continued									
		Book paper (uncoated) (261215)		Fine paper (uncoated) (261217)		Coated paper (all types) (264151)		All other paper and board (261251)	
		Quantity	Delivered cost	Quantity	Delivered cost	Quantity	Delivered cost	Quantity	Delivered cost
		(Short tons of 2,000 lbs.)	(\$1,000)	(Short tons of 2,000 lbs.)	(\$1,000)	(Short tons of 2,000 lbs.)	(\$1,000)	(Short tons of 2,000 lbs.)	(\$1,000)
	Printing and publishing, total.....	(2)	(2)	(2)	(2)	(2)	(2)	(NA)	248,178
2711	Newspapers.....	15,588	3,880	(NA)	6,427	(NA)	5,094	(NA)	12,845
2721	Periodicals.....	96,838	21,008	6,037	1,547	703,236	172,232	6,797	1,648
2731	Books: publishing and printing.....	180,089	46,986	(NA)	1,999	60,214	16,377	6,921	1,964
2732	Book printing.....	56,435	15,616	10,388	3,660	26,144	7,817	(NA)	14,692
2741	Miscellaneous publishing.....	20,107	5,664	8,592	2,836	6,013	1,877	2,721	950
2751	Commercial printing.....	31,181,988	3310,436	(3)	(3)	(3)	(3)	(NA)	163,830
2761	Lithographing.....	3494,969	3154,872	(3)	(3)	(3)	(3)	148,780	31,421
2771	Greeting cards.....	13,778	4,295	43,735	14,637	10,443	3,784	11,490	3,643
2781	Bookbinding.....	(4)	(4)	(4)	(4)	(4)	(4)	19,426	5,076
2782	Blankbooks and paper ruling.....	1,397	408	29,501	9,511	2,777	799	29,287	6,501
2783	Library and loose leaf binders and devices....	(5)	(5)	20,403	7,232	364	152	21,361	4,803
2789	Miscellaneous bookbinding work.....	(6)	(6)	304	120	670	245	4,170	805

Note: Comparable data not available for 1947 because 1954 data were collected on the basis of industry consumption while 1947 data were collected on the basis of consumption in individual products. See text for further explanations.

NA Not available.

¹\$204,887 thousand was reported without corresponding quantities and is included in the total cost of \$1,919,759 thousand. The total of \$204,887 thousand is composed of the following amounts by industry, 2711 - \$24,366 thousand; 2731 - \$1,999 thousand; 2732 - \$14,692 thousand and 2751 - \$163,830 thousand.

²In some instances totals are not available for individual grades because respondents did not report the data in the detail requested. Totals are shown for those grades of paper (261211 - 261213) where the available distributions reported account for more than 95 percent of total consumption.

³Data for materials 261215, 261217 and 264151 combined under 261215.

⁴Data for materials 261213, 261215, 261217 and 264151 combined under 261213.

⁵Data for materials 261213 and 261215 combined under 261213.

⁶Data for materials 261211, 261213 and 261215 combined under 261211.

Table 2A.—PULPWOOD, WOOD PULP, PAPER AND PAPERBOARD CONSUMED BY DIVISIONS AND STATES: 1954

Division and State	Pulpwood consumption-quantity and cost of pulpwood received from other establishments (cords of 128 cubic feet roughwood basis)						Wood pulp consump- tion ¹ (Short tons of 2,000 lbs. air-dry basis)	Paper and paperboard consumption by the converting Industries ² (short tons of 2,000 lbs.)			
	Softwoods and hardwoods, total		Softwoods		Hardwoods			Paper (excluding building paper)		Paperboard	
	Quantity	Cost (\$1,000)	Quantity	Cost (\$1,000)	Quantity	Cost (\$1,000)		Quantity	Cost (\$1,000)	Quantity	Cost (\$1,000)
United States, total.....	29,270,871	572,867	24,482,632	489,553	4,788,239	83,314	18,989,159	4,977,393	1,006,651	10,488,491	1,303,921
Northeast.....	4,036,167	104,244	2,964,632	80,800	1,071,535	23,444	4,149,274	1,647,431	364,604	3,618,992	443,909
New England.....	2,600,275	65,162	2,004,971	51,633	595,304	13,529	2,078,146	450,685	102,246	798,586	97,390
Maine.....	2,031,245	50,278	1,683,548	43,105	347,697	7,173	1,367,159	39,164	8,017	22,518	2,829
New Hampshire.....	456,123	11,739	259,786	6,714	196,337	5,025	209,981	82,188	17,240	3,361	540
Vermont.....	20,426	505	(D)	(D)	(D)	(D)	82,481	25,592	4,877	11,963	1,908
Massachusetts.....	63,481	1,886	(D)	(D)	(D)	(D)	345,755	274,996	64,789	521,631	60,495
Rhode Island.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	8,000	1,866	22,930	3,221
Connecticut.....	(D)	(D)	(D)	(D)	...	...	(D)	20,745	5,457	216,183	28,397
Middle Atlantic.....	1,435,892	39,082	959,661	29,167	476,231	9,915	2,071,128	1,196,746	262,358	2,820,406	346,519
New York.....	807,231	23,174	(D)	(D)	(D)	(D)	998,218	560,779	121,373	1,167,644	146,804
New Jersey.....	80,753	1,319	(D)	(D)	(D)	(D)	254,247	172,459	40,874	814,249	97,526
Pennsylvania.....	547,908	14,589	262,559	8,933	285,349	5,656	818,663	463,508	100,111	838,517	102,189
North Central.....	3,057,791	78,439	1,794,069	55,777	1,263,722	22,662	3,410,780	1,402,846	312,344	4,009,908	513,891
East North Central.....	2,349,016	62,793	1,385,672	45,578	963,344	17,215	2,732,323	1,263,798	280,791	3,365,436	426,317
Ohio.....	142,728	2,195	(D)	(D)	(D)	(D)	552,142	249,577	57,765	908,112	114,803
Indiana.....	...	...	...	...	...	...	24,736	45,855	10,373	308,127	37,840
Illinois.....	55,946	770	(D)	(D)	(D)	(D)	138,943	209,396	47,212	940,475	117,766
Michigan.....	401,653	10,096	191,148	6,896	210,505	3,200	688,516	199,601	41,494	746,022	93,362
Wisconsin.....	1,748,689	49,732	1,137,759	37,917	610,930	11,815	1,327,986	559,369	123,947	462,700	62,546
West North Central.....	708,775	15,646	408,397	10,199	300,378	5,447	678,457	139,048	31,553	644,472	87,574
Minnesota.....	(D)	(D)	(D)	(D)	300,378	5,447	661,367	37,805	10,020	144,110	18,711
Iowa.....	(D)	(D)	(D)	(D)	...	...	(D)	4,017	945	105,425	15,442
Missouri.....	...	...	...	...	...	...	(D)	92,477	19,525	250,461	33,388
Nebraska.....	...	...	...	...	...	...	...	(D)	(D)	22,760	3,100
Kansas.....	...	...	...	...	...	...	(D)	(D)	(D)	121,716	16,933
South.....	16,651,650	291,102	14,279,253	255,263	2,372,397	35,839	9,060,441	1,412,632	233,114	1,748,297	218,419
South Atlantic.....	9,801,521	175,313	8,820,617	160,387	980,904	14,926	5,399,232	702,014	115,702	1,033,180	127,531
Delaware.....	...	...	...	...	...	...	26,720	13,990	3,376	(D)	(D)
Maryland.....	162,449	2,582	(D)	(D)	(D)	(D)	117,156	18,439	4,888	194,083	26,322
District of Columbia.....	...	...	...	...	...	...	...	34,928	7,779	(D)	(D)
Virginia.....	1,393,141	23,801	1,144,630	19,995	248,511	3,806	847,739	114,324	18,501	109,895	11,750
West Virginia.....	...	...	...	...	...	...	6,211	27,531	5,329	56,464	6,587
North Carolina.....	1,501,465	26,109	1,199,137	21,484	302,328	4,625	645,845	7,667	1,632	144,247	17,473
South Carolina.....	1,382,496	24,716	1,248,549	22,593	133,947	2,123	918,447	3,726	686	110,003	11,297
Georgia.....	2,605,726	45,845	2,417,981	43,109	187,745	2,736	1,271,211	269,772	42,241	281,998	36,708
Florida.....	2,756,244	52,260	(D)	(D)	(D)	(D)	1,565,903	211,637	31,270	135,419	17,150
East South Central.....	3,168,840	51,419	2,054,911	35,020	1,113,929	16,399	1,517,708	305,147	52,622	218,701	27,026
Kentucky.....	...	...	...	...	...	...	...	29,246	4,875	36,976	4,639
Tennessee.....	312,527	4,923	(D)	(D)	(D)	(D)	245,395	74,594	20,445	137,058	17,005
Alabama.....	1,136,104	19,347	(D)	(D)	(D)	(D)	619,015	199,034	26,693	25,115	3,025
Mississippi.....	1,720,209	27,149	822,934	14,176	897,275	12,973	653,298	2,273	609	19,552	2,357
West South Central.....	3,681,289	64,370	3,403,725	59,856	277,564	4,514	2,143,501	405,471	64,790	496,416	63,862
Arkansas.....	623,506	11,179	(D)	(D)	(D)	(D)	343,837	95,983	16,656	26,167	4,401
Louisiana.....	2,443,051	43,089	(D)	(D)	(D)	(D)	1,480,476	258,942	35,633	272,049	33,039
Oklahoma.....	...	...	...	...	...	...	(D)	(D)	(D)	27,086	3,583
Texas.....	3614,732	10,102	(D)	(D)	(D)	(D)	(D)	(D)	(D)	171,114	22,839
West.....	5,525,263	99,082	5,444,678	97,713	80,585	1,369	2,368,664	514,484	96,589	1,111,294	127,702
Mountain.....	(D)	(D)	(D)	(D)	...	...	(D)	4,138	1,107	32,930	3,707
Colorado.....	...	...	...	...	...	...	...	(D)	(D)	25,034	2,812
Pacific.....	(D)	(D)	(D)	(D)	80,585	1,369	(D)	510,346	95,482	1,078,364	123,995
Washington.....	3,847,141	72,500	3,766,556	71,131	80,585	1,369	1,276,007	209,830	35,561	167,454	18,888
Oregon.....	939,160	16,929	939,160	16,929	...	...	670,231	64,427	11,292	39,968	5,144
California.....	(D)	(D)	(D)	(D)	...	...	(D)	236,089	48,629	870,942	99,963

D Withheld to avoid disclosing figures for individual companies.

¹Represents data on the consumption in the manufacture of paper and board only. Data on the use of wood pulp by other industries (see Table 1A) withheld to avoid disclosing figures for individual companies.²Represents data reported by establishments primarily engaged in converting paper and board products (Industries 2641 and 2699) excluding Industry 2694 (577 tons). For data on the consumption of newsprint in publishing see Table 1B and for the Roofing Felts and Coatings Industry and the Hard Surface Floor Coverings Industry, see footnote 1 to Table 1B.³Includes an insignificant amount of pulpwood produced and consumed by the same establishments.

MANUFACTURES—SUMMARY STATISTICS

Table 2B.—NEWSPRINT CONSUMED IN PUBLISHING, BY DIVISIONS AND STATES: 1954

Division and State	Newsprint consumed in publishing, total (short tons of 2,000 lbs.)				Newsprint consumed in newspaper publishing (short tons of 2,000 lbs.)				Newsprint consumed in periodical and other publishing ² (short tons of 2,000 lbs.)			
	Quantity purchased and consumed by publisher	Cost (\$1,000)	Quantity purchased by printers for publishers	Total quantity consumed in publishing	Quantity purchased and consumed by publishers	Cost (\$1,000)	Quantity purchased by printers	Total quantity consumed in publishing	Quantity purchased and consumed by publishers	Cost (\$1,000)	Quantity purchased by printers	Total quantity consumed in publishing
United States, total...	5,538,593	720,066	166,611	5,705,204	5,262,177	682,861	86,150	5,348,327	276,416	37,205	80,461	356,877
Northeast.....	1,832,772	235,117	100,135	1,932,907	1,627,684	207,677	34,396	1,662,080	205,088	27,440	65,739	270,827
New England.....	347,772	44,506	7,148	354,920	325,150	41,477	5,089	330,239	22,622	3,029	2,059	24,681
Maine.....	15,243	1,928	357	15,300	15,243	1,924	57	15,300	(3)	...	(3)	(3)
New Hampshire.....	36,428	773	203	36,631	6,428	757	203	6,631	(3)	...	...	(3)
Vermont.....	3,488	459	...	3,488	3,488	459	...	3,488	...	...	...	...
Massachusetts.....	231,965	29,612	1,703	233,668	213,041	27,078	1,354	214,395	18,924	2,534	349	19,273
Rhode Island.....	27,211	3,410	1,605	28,816	27,211	3,410	1,605	28,816	...	...	...	...
Connecticut.....	63,392	8,324	3,542	66,934	59,739	7,849	1,870	61,609	3,653	475	1,672	5,325
Middle Atlantic.....	1,485,000	190,611	92,987	1,577,987	1,302,534	166,200	29,307	1,331,841	182,466	24,411	63,680	246,146
New York.....	884,947	114,313	77,698	962,645	731,544	93,599	14,167	745,711	153,403	20,714	63,531	216,934
New Jersey.....	129,149	16,250	642	129,791	127,635	16,017	545	128,180	1,514	233	97	1,611
Pennsylvania.....	470,904	60,048	14,647	485,551	443,355	56,584	14,595	457,950	27,549	3,464	52	27,601
North Central.....	1,728,360	224,245	34,439	1,762,799	1,680,972	217,736	28,310	1,709,282	47,388	6,509	6,129	53,517
East North Central.....	1,322,993	171,262	27,094	1,350,087	1,281,903	165,802	21,631	1,303,534	41,090	5,460	5,463	46,553
Ohio.....	370,788	48,327	12,578	383,366	355,551	46,382	11,929	367,480	15,237	1,945	649	15,886
Indiana.....	128,092	16,284	270	128,362	124,497	15,815	237	124,734	3,595	469	33	3,628
Illinois.....	432,905	56,746	3,493	436,398	419,138	54,879	2,876	422,014	13,767	1,867	617	14,384
Michigan.....	261,418	33,199	4,996	266,414	254,908	32,282	3,409	258,317	6,510	917	1,587	8,097
Wisconsin.....	129,790	16,706	5,757	135,547	127,809	16,444	3,180	130,989	1,981	262	2,577	4,558
West North Central.....	405,367	52,983	7,345	412,712	399,069	51,934	6,679	405,748	6,298	1,049	666	6,964
Minnesota.....	110,785	14,399	926	111,711	108,632	14,032	851	109,483	2,153	367	75	2,228
Iowa.....	73,846	9,599	4,268	78,114	70,981	9,137	4,251	75,232	2,865	462	17	2,882
Missouri.....	114,632	15,014	1,271	115,903	113,916	14,882	1,172	115,088	716	132	99	815
North Dakota.....	7,147	955	9	7,156	7,147	955	9	7,156	...	...	...	...
South Dakota.....	8,509	1,175	29	8,538	8,338	1,139	29	8,367	171	36	...	171
Nebraska.....	341,616	5,416	370	341,686	41,616	5,414	70	41,686	(3)	...	(3)	(3)
Kansas.....	48,814	6,425	767	49,581	48,439	6,735	297	48,736	375	50	470	845
South.....	1,190,864	157,051	22,457	1,213,321	1,182,241	155,821	15,828	1,198,069	8,623	1,230	6,629	15,252
South Atlantic.....	600,676	79,589	14,147	614,823	596,838	79,042	8,238	605,076	3,838	547	5,909	9,747
Delaware.....	9,459	1,265	...	9,459	9,459	1,265	...	9,459	...	...	...	...
Maryland.....	87,476	11,157	3,572	91,048	87,409	11,146	3,481	90,890	67	11	91	158
District of Columbia.....	121,108	15,238	781	121,889	119,412	15,020	613	120,025	1,696	218	168	1,864
Virginia.....	66,477	8,888	6,729	73,206	65,700	8,754	1,112	66,812	777	134	5,617	6,404
West Virginia.....	31,951	4,142	174	32,125	31,951	4,140	174	32,125	(3)	...	...	(3)
North Carolina.....	366,214	8,820	317	366,531	66,214	8,816	317	66,531	(3)	...	...	(3)
South Carolina.....	329,438	3,896	518	329,956	29,444	3,863	512	29,956	(3)	...	...	(3)
Georgia.....	76,373	10,706	334	76,707	75,521	10,587	307	75,828	852	119	27	879
Florida.....	111,912	15,477	1,722	113,634	111,728	15,451	1,722	113,450	184	26	...	184
East South Central.....	201,506	26,456	916	202,422	199,555	26,192	596	200,151	1,951	264	320	2,271
Kentucky.....	50,155	6,632	115	50,270	49,834	6,588	45	49,879	321	44	70	391
Tennessee.....	82,574	10,702	178	82,752	82,312	10,661	110	82,422	262	41	68	330
Alabama.....	55,334	7,322	587	55,921	54,099	7,163	405	54,504	1,235	159	182	1,417
Mississippi.....	13,443	1,800	36	13,479	13,310	1,780	36	13,346	133	20	...	133
West South Central.....	388,682	51,006	7,394	396,076	385,848	50,587	6,994	392,842	2,834	419	400	3,234
Arkansas.....	320,575	2,732	108	320,683	20,575	2,728	108	20,683	(3)	...	...	(3)
Louisiana.....	71,673	9,312	420	72,093	71,657	9,310	20	71,677	16	2	400	416
Oklahoma.....	81,677	10,725	1,651	83,328	81,473	10,695	1,651	83,124	204	30	...	204
Texas.....	214,734	28,237	5,215	219,949	212,143	27,854	5,215	217,358	2,591	383	...	2,591
West.....	786,597	103,653	9,580	796,177	771,280	101,627	7,616	778,896	15,317	2,026	1,964	17,281
Mountain.....	139,480	19,360	403	139,883	138,250	19,198	359	138,609	1,230	162	44	1,274
Montana.....	38,371	1,201	399	38,470	8,371	1,201	99	8,470	(3)	...	(3)	(3)
Idaho.....	35,493	795	5	35,498	5,493	791	5	5,498	(3)	...	...	(3)
Wyoming.....	3,331	460	10	3,341	3,331	460	10	3,341	...	...	...	...
Colorado.....	67,402	9,223	81	67,483	66,294	9,082	66	66,360	1,108	141	15	1,123
New Mexico.....	7,712	1,076	150	7,862	7,712	1,076	150	7,862	...	...	...	...
Arizona.....	21,831	3,057	29	21,860	21,758	3,044	29	21,787	73	13	...	73
Utah.....	21,425	3,020	...	21,425	21,419	3,018	...	21,419	6	2	...	6
Nevada.....	3,892	528	23	3,915	3,872	526	...	3,872	20	2	23	43
Pacific.....	647,117	84,293	9,177	656,294	633,030	82,429	7,257	640,287	14,087	1,864	1,920	16,007
Washington.....	88,631	11,479	4,859	93,490	86,841	11,255	3,477	90,318	1,790	224	1,382	3,172
Oregon.....	60,987	8,161	303	61,290	60,744	8,121	302	61,046	243	40	1	244
California.....	497,499	64,653	4,015	501,514	485,445	63,053	3,478	488,923	12,054	1,600	537	12,591

¹Includes newsprint consumed in supplements (magazine sections) prepared for issuance and sale by publishers of Sunday newspapers.

²The difference between the 5,705,204 tons of newsprint shown in this table and the 5,905,232 tons shown as the total newsprint consumed in Printing and Publishing Industries (Table 10) represents the quantity of newsprint consumed by printers in products other than publications such as advertising circulars and other general commercial (job) printing.

³Very small quantities of newsprint purchased for use in "other publishing" are excluded from the published figures for these States, but included in the respective regional and United States totals. While the exact figures have been suppressed to avoid possible disclosure of individual company figures, the total involved in such suppressions amounts to only 426 tons.

Chemicals and Rubber

This section includes data on materials primarily consumed by establishments classified in Major Group 28, "Chemicals and Allied Products," Major Group 29, "Products of Petroleum and Coal" and Major Group 30, "Rubber Products."

Crude Sulfur and Pyrites

The totals for crude sulfur and pyrites are slightly less than the "apparent consumption" figures published by the Bureau of Mines, Department of Interior, because Census information for these materials was not requested from certain manufacturing establishments, principally those classified in Major Group 30, "Rubber Products," the Match Industry (3983), the Drug and Medicine Industries (Group 283) and Major Group 26, "Paper and Allied Products."

Establishments producing sulfuric acid account for about 80 percent of the total consumption of sulfur from all sources. The majority of establishments manufacturing this product are classified in industries other than the Sulfuric Acid Industry (2811). Further information on the industrial classification of establishments producing sulfuric acid appears in Volume II, Industry Statistics, page 28A-1.

Fuels Consumed as Raw Materials

The figures for coal, natural gas, fuel oil and coke represent consumption by establishments classified only in the Chemicals and Allied Products, Major Group 28. However, these establishments account for practically all of the United States consumption of these fuels as raw materials.

Fuels Converted to Other Fuel Forms

The statistics for coal represent the amounts carbonized at coke oven plants and the amounts consumed in fuel briquets and in packaged fuel only. The totals are less than the figures published by the Bureau of Mines, in the Minerals Yearbook, since the data of that agency include information from all establishments. The Census Bureau collects data only from manufacturing industries, and excludes information from public utilities or other nonmanufacturing establishments.

The figures for crude petroleum represent consumption at petroleum refineries only. However, petroleum refineries account for practically all the United States consumption of crude petroleum. State data appear in the 1954 Census of Manufactures, Volume II, Industry Statistics, page 29A-25.

Data on other fuels used for conversion by the Petroleum Refining Industry (2911) are shown in the 1954 Census of Manufactures, Volume II, Industry Statistics, pages 29A-26 and 29A-27.

Chemicals

Consumption data for the chemicals listed below are estimated as representing a varying proportion of the United States total (from 73 percent for ammonia, 76 percent for sodium hydroxide, to 93 percent for sodium carbonate). The coverage for ammonia is relatively low because information was not compiled for quantities sold for direct application to the soil. Coverage for sodium hydroxide (caustic soda) is low because information was not compiled from plants classified in the textile industries, rubber reclaiming, refining of vegetable oils, and other miscellaneous industries.

Data are not shown for consumption of animal and vegetable fats and oils, glycerin and fatty acids. These data appear in the Facts for Industry Series M17-04, Animal and Vegetable Fats and Oils, Summary for 1954. Consumption information for industrial ethyl, alcohol, pure and denatured, was also omitted but these data may be found in the publications of the Internal Revenue Service.

In making any comparison of the quantity consumed with supply for the several chemicals, account should be taken of the factors discussed in the Introduction to the materials consumption tables. In addition, consideration should be given to the variations in handling consumption data for inorganic chemicals produced and consumed in the same establishment. Inasmuch as the production and consumption data collected for certain inorganic chemicals include quantities which were subsequently used in producing other physical modifications of the specified chemicals, adjustments were made so that the consumption data shown below do not reflect these amounts. Whereas the 1954 statistics showing consumption by industries indicate separately purchases and the quantities produced and consumed, the State and regional data do not, in order to maximize the amount of geographical information published.

In some cases primarily at the State level, 1954 and 1947 data may not be directly comparable because the industries covered in 1954 may not be identical with those for which information was collected in 1947. Where this was considered to have a major effect on the comparison, (e.g. sulfuric acid) the 1947 data were not shown in the State table. A second factor to be considered in such comparisons is the possibility of establishments changing industry classifications from covered to uncovered industries. Shifts in industry classification of this type would affect the State comparisons and because of the larger magnitudes involved, to a lesser degree the comparability of the industry data for the two years.

Rubber

The figures for crude, synthetic and reclaimed rubber are limited to the quantities consumed by establishment classified in the specified industries. The Census data do not represent the total U. S. rubber consumption for all industries, estimates of which are prepared by Business and Defense Services Administration, U. S. Department of Commerce. Based on the 1954 figures released by that agency, the establishments classified in the industries covered by the census used approximately 98.5 percent of the total new rubber, and about 99.5 percent of all rubber consumed. The totals for reclaimed rubber compiled by the Census Bureau are about 5 percent higher than the figures released by BDSA. Table 2G shows State data for rubber consumed by establishments in Major Group 30, "Rubber Products," only. Since this group accounts for nearly all rubber consumption, the data shown for most States in that table substantially reflect rubber consumption by all users. However, there are a few States in which other industrial users of rubber predominate. These consumers are the Wire Drawing (Industry 3392) and the Insulated Wire and Cable (Industry 3631). The resulting differences in consumption by State because of these additional consumers may be determined by comparing the data shown in table 2G with the information shown below:

RUBBER CONSUMED BY RUBBER PRODUCTS, WIRE DRAWING AND INSULATED WIRE AND CABLE INDUSTRIES, BY TYPE, FOR REGIONS AND STATES: 1954

Division and State	Total (quantity long tons)	Natural rubber		Synthetic rubber		Reclaimed* (quantity long tons)
		Quantity (long tons)	Delivered cost (\$1,000)	Quantity (long tons)	Delivered cost (\$1,000)	
UNITED STATES, TOTAL.....	1,475,208	590,615	296,267	623,293	*336,277	261,300
New England.....	190,325	83,029	46,355	83,900	48,171	23,396
Massachusetts.....	123,580	48,350	27,170	57,211	31,561	18,019
Rhode Island.....	15,469	(D)	(D)	5,625	4,023	(D)
Connecticut.....	43,373	23,164	12,136	16,709	10,366	3,500
Middle Atlantic.....	181,946	68,749	36,054	82,810	48,157	30,387
New York.....	42,860	20,976	12,382	17,526	11,135	4,358
New Jersey.....	37,165	13,578	7,637	17,823	12,160	5,764
Pennsylvania.....	101,921	34,195	16,035	47,461	24,862	20,265
North Central.....	696,283	282,105	139,582	262,710	138,626	151,468
Ohio.....	369,684	(D)	(D)	129,870	70,740	(D)
Indiana.....	218,307	173,879	10,118	30,253	17,745	14,175
South.....	256,498	(D)	(D)	125,505	65,257	(D)
West.....	150,156	(D)	(D)	68,368	36,066	(D)

*Includes rubber reclaimed and consumed in the same establishment.

D Withheld to avoid disclosing figures for individual companies.

MANUFACTURES—SUMMARY STATISTICS

Table 1A.—CRUDE SULFUR AND PYRITES CONSUMED BY SPECIFIED INDUSTRIES: 1954

Code	Industry	Sulfur, crude (147711)		Pyrites (147911)	
		Quantity (long tons)	Delivered cost (\$1,000)	Quantity (long tons gross weight)	Delivered cost (\$1,000)
	Total.....	3,596,015	(D)	1,198,407	(D)
2611	Pulp mills.....	399,650	15,583	xxx	xxx
2811	Sulfuric Acid.....	1,066,221	35,478	*885,122	*7,204
2812	Alkalies and chlorine.....	20,959	695	...	...
2819	Inorganic chemicals, n.e.c.....	493,739	15,727	311,885	3,490
2822	Intermediates and organic colors.....	119,133	4,128	...	...
2829	Organic chemicals, n.e.c.....	328,639	11,675	...	...
2871	Fertilizers.....	1,980,340	(D)	1,400	(D)
2872	Fertilizers, mixing only.....	...	...	...	...
2897	Insecticides and fungicides.....	145,018	4,697	xxx	xxx
2911	Petroleum refining.....	42,316	1,369	xxx	xxx

* Revised. These data were revised after the industry bulletin was published.

D Withheld to avoid disclosing figures of individual companies.

xxx Not applicable.

¹The cost for both the sulfur and pyrites totaled \$30,844 thousand.

Table 1B.—FUELS CONSUMED AS RAW MATERIALS BY SPECIFIED INDUSTRIES: 1954

Code	Industry	Bituminous coal and lignite (121111)		Natural gas (131311)		Fuel oil (291131)		Coke (293211)	
		Quantity (short ton)	Delivered cost (\$1,000)	Quantity (Million cu. ft.)	Delivered cost (\$1,000)	Quantity (42 gal. barrels)	Delivered cost (\$1,000)	Quantity (short ton)	Delivered cost (\$1,000)
	Total.....	181,942	754	338,101	33,734	3,960,389	11,003	1,860,356	26,628
2812	Alkalies and chlorine.....	(D)	(D)	(D)	(D)	...	...	463,017	7,446
2819	Inorganic chemicals, n.e.c.....	154,508	547	56,811	12,046	28,121	58	1,078,782	13,989
2822	Intermediates and organic colors.....	(D)	(D)	(D)	(D)	142,240	379	(D)	(D)
2829	Organic chemicals, n.e.c.....	(D)	(D)	26,337	3,677	7,104	17	(D)	(D)
2895	Carbon black ¹.....	...	...	251,617	² 17,516	3,782,924	² 10,549	...	...

D Withheld to avoid disclosing figures of individual companies.

¹Includes materials consumed in the production of carbon black, lamp black, and bone black.²The Bureau of Mines reports that 251,176 million cubic feet of natural gas, valued at \$17,510 thousand and 154,919 thousand gallons of liquid hydrocarbons valued at \$10,320 thousand were used in manufacturing carbon black by the channel and furnace processes. The 1947 figures also reported by that agency are 480,646 million cubic feet of natural gas valued at \$22,723 thousand. Data for liquid hydrocarbons used in the production of carbon black are not shown separately.

Table 1C.—FUELS CONVERTED TO OTHER FUEL FORMS BY SPECIFIED INDUSTRIES: 1954 and 1947

Code	Industry	Anthracite (111111)		Bituminous coal and lignite (121111)		Crude petroleum, domestic and imported (131211)		Crude petroleum, domestic (131234)			
		1954		1954		1954		1954		1947	
		Quantity (short ton)	Delivered cost (\$1,000)	Quantity (short ton)	Delivered cost (\$1,000)	Quantity (1,000 barrels)	Delivered cost (\$1,000)	Quantity (1,000 barrels)	Delivered cost (\$1,000)	Quantity (1,000 barrels)	Delivered cost (\$1,000)
	Total.....	423,839	2,982	84,835,113	757,805	2,499,295	7,638,890	1,884,052	2,288,773	6,995,841	1,786,082
2911	Petroleum refining.....	xxx	xxx	xxx	xxx	2,499,295	7,638,890	1,884,052	2,288,773	6,995,841	1,786,082
2931	Beehive coke ovens.....	xxx	xxx	972,953	6,057	xxx	xxx	xxx	xxx	xxx	xxx
2932	Byproduct coke ovens....	190,509	1,594	82,840,372	745,267	xxx	xxx	xxx	xxx	xxx	xxx
2999	Petroleum and coal products, n.e.c.....	233,330	1,388	1,021,788	6,481	xxx	xxx	xxx	xxx	xxx	xxx

xxx Not applicable.

210-25

Code	Industry	Sulfuric acid (281111) (Quantity figures in short tons of 100% H ₂ SO ₄)								
		1954			1947					
		Total quantity	Purchased		Produced and consumed, quantity	Total quantity				
			Quantity	Delivered cost (\$1,000)						
	Total.....	12,402,114	6,327,043	131,205	6,075,071	(NA)				
2811	Sulfuric acid.....	176,052	...	...	176,052	1,162,595		
2812	Alkalies and chlorine.....	23,269	23,269	571	...					
2819	Inorganic chemicals, n.e.c.....	1,757,593	752,889	16,231	1,004,704					
2822	Intermediates and organic colors.....	517,961	209,878	4,895	308,083					
2823	Plastics materials.....	174,934	174,934	4,062	...					
2825	Synthetic fibers.....	541,873	541,873	12,107	...	1,559,485				
2826	Explosives.....	365,824	92,990	2,116	272,834					
2829	Organic chemicals, n.e.c.....	610,122	428,078	9,134	182,044					
2871	Fertilizers.....	4,325,788	1,520,860	26,116	2,804,928	3,399,451				
2872	Fertilizers, mixing only.....									
2911	Petroleum refining.....	1,433,493	1,087,884	23,677	345,609	1,180,526				
2932	Byproduct coke ovens.....	750,301	750,301	15,876	...	xxx				
2992	Lubricants, n.e.c.....	12,393	12,393	323	...	xxx				
3312	Steel works and rolling mills.....	807,455	731,694	16,097	980,817	xxx				
2852	Inorganic color pigments.....	905,056								
2899	Chemical products, n.e.c.....									
3331	Primary copper.....									
3332	Primary lead.....									
3333	Primary zinc.....									
3861	Photographic equipment.....									
Nitric acid (281925) (Quantity figures in short tons of 100% HNO ₃)										
		1954			1947					
		Total quantity	Purchased		Produced and consumed, quantity	Total quantity				
			Quantity	Delivered cost (\$1,000)						
	Total.....	2,062,848	162,465	(NA)	2,000,383	1,313,664				
2812	Alkalies and chlorine.....	1,407,456	(D)	(NA)	(D)	865,961				
2819	Inorganic chemicals.....		(D)	(NA)	(D)					
2822	Intermediates and organic colors.....		(D)	(NA)	(D)					
2823	Plastics materials.....		...	...	...		
2825	Synthetic fibers.....		(D)	...	(D)					
2826	Explosives.....	429,307	27,260	2,032	402,047	447,703				
2829	Organic chemicals, n.e.c.....	(D)	(D)	(NA)	(D)					
3341	Secondary non ferrous metals.....	(D)	(D)	(NA)	...					

xxx Not applicable.

NA Not available.

¹Includes 35,205 s

¹Includes 35,205 short tons, purchased and received for which cost figures not reported.

Code	Industry	Ammonia synthetic, anhydrous (281931) (Quantity figures in short tons of 100% NH ₃)				
		1954			1947	
		Total quantity	Purchased		Produced and consumed, quantity	Total quantity
			Quantity	Delivered cost (\$1,000)		
	Total.....	2,008,610	684,312	64,379	1,324,298	830,351
2811	Sulfuric acid.....	36,059	36,059	3,549	...	} 666,968 (1)
2812	Alkalies and chlorine.....	24,300	22,624	2,339	1,676	
2819	Inorganic chemicals, n.e.c.....	1,298,443	130,355	11,278	1,168,088	
2822	Intermediates and organic colors.....	(D)	58,681	5,579	(D)	
2826	Explosives.....	145,822	145,822	14,222	...	...
2829	Organic chemicals, n.e.c.....	(D)	82,036	7,973	(D)	1106,219
2871	Fertilizers.....	} 208,735	208,735	19,439	...	57,164
2872	Fertilizers, mixing only.....					

D Withheld to avoid disclosing figures of individual companies.

¹Quantities for Industry 2822 included in totals for Industry 2829.

MANUFACTURES--SUMMARY STATISTICS

Table 1F.—SODIUM SULPHATE CONSUMED BY SPECIFIED INDUSTRIES: 1954 AND 1947

Code	Industry	Sodium sulfate (281971)		
		1954		1947
		Purchased quantity (short tons)	Delivered cost (\$1,000)	Purchased quantity (short tons)
	Total.....	780,739	20,862	701,887
2611	Pulp mills.....	716,761	19,037	619,047
2612	Paper and paperboard mills.....			
2825	Synthetic fibers.....			
3211	Flat glass.....			
3221	Glass containers.....			
3229	Pressed and blown glass, n.e.c.....	2,784	92	2,184

NA Not available.

Table 1G.—SODIUM CARBONATE CONSUMED BY SPECIFIED INDUSTRIES: 1954 AND 1947

Code	Industry	Sodium carbonate (soda ash) (281231) (Quantity figures in short tons of 58% Na ₂ O)				
		1954			1947	
		Total quantity ¹	Purchased Quantity	Delivered cost (\$1,000)	Produced and consumed, quantity	Total quantity
	Total.....	4,261,740	3,314,861	112,004	946,879	*3,839,314
2611	Pulp mills.....	240,207	240,207	8,280	...	259,447
2811	Sulfuric acid.....	2,153,616	(D)	(D)	...	1,948,150
2812	Alkalies and chlorine.....		(D)	(D)	(D)	
2819	Inorganic chemicals, n.e.c.....		1,178,219	38,776	(D)	
2822	Intermediates and organic colors.....	36,514	36,514	1,507	...	42,887
2829	Organic chemicals, n.e.c.....	35,125	35,125	1,259	...	
2841	Soap and glycerin.....	53,188	53,188	1,992	...	156,559
2842	Cleaning and polishing products.....	202,903	202,903	5,995	...	
3211	Flat glass.....	276,223	276,223	9,689	...	*225,154
3221	Glass containers.....	1,121,125	1,121,125	38,676	...	1,042,526
3229	Pressed and blown glass, n.e.c.....	142,839	142,839	4,872	...	164,591

D Withheld to avoid disclosing figures of individual companies.

*Revised.

¹Includes data for liquid ash.

Table 1H.—SODIUM HYDROXIDE CONSUMED BY SPECIFIED INDUSTRIES: 1954 AND 1947

Code	Industry	Sodium hydroxide (caustic soda) (281221) (Quantity figures in short tons of 100% NaOH)				
		1954			1947	
		Total quantity	Purchased Quantity	Delivered cost (\$1,000)	Produced and consumed, quantity	Total quantity
	Total.....	2,431,757	1,785,234	104,364	646,523	1,324,748
2611	Pulp mills.....	283,573	232,714	13,580	50,859	160,006
2612	Paper and paperboard mills.....					
2811	Sulfuric acid.....					
2812	Alkalies and chlorine.....					
2819	Inorganic chemicals, n.e.c.....					
2822	Intermediates and organic colors.....	(D)	91,003	5,802	(D)	579,726
2823	Plastics materials.....	139,543	139,543	8,755	...	
2824	Synthetic rubber.....	5,218	5,218	378	...	
2825	Synthetic fibers.....	380,071	380,071	22,147	...	
2826	Explosives.....	2,542	2,542	208	...	
2829	Organic chemicals, n.e.c.....	489,317	212,872	11,561	276,445	
2841	Soap and glycerin.....	159,276	159,276	10,061	...	242,309
2842	Cleaning and polishing products.....	62,728	62,728	4,563	...	
2911	Petroleum refining.....	(D)	258,745	15,015	(D)	
2992	Lubricants, n.e.c.....	2,090	2,090	149	...	...

D Withheld to avoid disclosing figures of individual companies.

SELECTED MATERIALS CONSUMED

210-27

Table 1J.—CHLORINE CONSUMED BY SPECIFIED INDUSTRIES: 1954 AND 1947

Code	Industry	Chlorine gas (281211) (Quantity figures in short tons of 100% Cl ₂)				
		1954				1947
		Total quantity	Purchased		Produced and consumed, quantity	Total quantity
			Quantity	Delivered cost (\$1,000)		
	Total.....	2,559,528	1,215,380	74,740	1,344,148	1,215,102
2611	Pulp mills.....	(D)	355,233	24,352	(D)	246,961
2612	Paper and paperboard mills.....	(D)	56,460	3,999	(D)	246,961
2812	Alkalies and chlorine.....	298,200	...	...	298,200	90,219
2819	Inorganic chemicals, n.e.c.....	208,654	93,447	6,580	115,207	877,922
2822	Intermediates and organic colors.....	253,307	48,113	3,002	205,194	...
2829	Organic chemicals, n.e.c.....	1,314,838	662,127	36,807	652,711	...
2911	Petroleum refining.....	(D)	...	...	(D)	...

D Withheld to avoid disclosing figures of individual companies.

Table 1K.—FORMALDEHYDE CONSUMED BY SPECIFIED INDUSTRIES: 1954 AND 1947

Code	Industry	Formaldehyde (282951) (Quantity figures in 1,000 pounds of 37% HCHO)				
		1954				1947
		Total quantity	Purchased		Quantity made and consumed in same plant	Total quantity
			Quantity	Delivered cost (\$1,000)		
	Total.....	(D)	(D)	(D)	590,569	480,413
2812	Alkalies and chlorine.....	...	...	...	...	3,785
2819	Inorganic chemicals, n.e.c.....	(D)	(D)	(D)	...	1173,273
2822	Intermediates and organic colors.....	39,944	39,944	1,489	...	294,639
2823	Plastics materials.....	491,929	300,906	10,726	191,023	(¹)
2829	Organic chemicals, n.e.c.....	508,488	108,942	3,636	399,546	8,716
3971	Plastics products, n.e.c.....	xxx	xxx	xxx	xxx	...

D Withheld to avoid disclosing figures of individual companies.

xxx Not applicable.

¹Includes data for Industry 2829 organic chemicals, n.e.c.

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Table 11.—RUBBER CONSUMED BY SPECIFIED INDUSTRIES: 1954 AND 1947

Code	Industry	Total		Natural rubber (086113 and 086115)				Synthetic and other rubber (282410 and 282415)			
		1954	1947	1954		1947		1954		1947	
		Quantity (Long tons)	Quantity (Long tons)	Quantity (Long tons)	Delivered cost (\$1,000)	Quantity (Long tons)	Delivered cost (\$1,000)	Quantity (Long tons)	Delivered cost (\$1,000)	Quantity (Long tons)	Delivered cost (\$1,000)
	Total.....	1,475,208	1,298,854	590,615	296,267	1,533,512	1,258,438	623,293	336,277	1,511,275	1,228,648
3011	Tires and inner tubes..	923,124	924,253	400,990	187,908	415,837	197,384	380,249	193,137	390,237	169,197
3021	Rubber footwear.....	24,776	36,463	19,383	9,879	20,134	10,270	3,981	2,375	7,406	3,499
3031	Reclaimed rubber.....	491,766	338,138	165,986	96,058	97,541	50,784	208,376	118,457	113,632	55,952
3099	Rubber industries, nec.										
3392	Wire drawing.....	27,350	(NA)	2,971	1,647	(NA)	(NA)	23,780	17,371	(NA)	(NA)
3631	Insulated wire and cable.....	8,192	(NA)	1,285	775						
Reclaimed rubber (303111)											
1954						1947					
Total		Purchased			Made and consumed in same plant	Total		Purchased		Made and consumed in same plant	
Quantity (Long tons)		Quantity (Long tons)		Delivered cost (\$1,000)	Quantity (Long tons)	Quantity (Long tons)		Quantity (Long tons)		Delivered cost (\$1,000)	Quantity (Long tons)
	Total.....	2,261,300	2,228,459	244,152	32,841	1,254,067		1,184,663		133,552	69,404
3011	Tires and inner tubes..	141,885	125,175	24,514	16,710	118,179		84,673		14,799	33,506
3021	Rubber footwear.....	1,412	855	197	557	8,923		6,650		1,265	2,273
3031	Reclaimed rubber.....	117,404	101,830	19,304	15,574	126,965		93,340		17,488	33,625
3099	Rubber industries, nec.										
3392	Wire drawing.....	599	599	137	(NA)	(NA)		(NA)		(NA)	...
3631	Insulated wire and cable.....	...	(D)	(D)							

NA Not available.

¹Excludes quantities and value of rubber consumed by establishments classified in Industries 3392 and 3631. The total cost of all types of rubber consumed by Industry 3631 is \$95,795,000 for 1947.²Excludes quantities and value of reclaimed rubber consumed by establishments classified in Industry 3631, which is less than 1% of the total.

Table 2A.—SULFURIC ACID (281111) CONSUMED BY SELECTED INDUSTRIES FOR DIVISIONS AND STATES: 1954
(Based on data for establishments classified in the industries listed in Table 1 for the same material)

Division and State	Short tons of 100% H ₂ SO ₄	Division and State	Short tons of 100% H ₂ SO ₄
United States, total ¹	12,402,114	South.....	6,610,642
New England ¹	118,897	Delaware.....	293,388
Massachusetts.....	75,709	Maryland.....	858,486
Connecticut.....	(D)	Virginia.....	462,262
Middle Atlantic.....	1,836,682	West Virginia.....	184,233
New York.....	158,599	North Carolina.....	226,116
New Jersey.....	1,311,015	South Carolina.....	179,206
Pennsylvania.....	367,068	Georgia.....	291,987
East North Central.....	2,493,684	Florida.....	1,211,764
Ohio.....	705,778	Kentucky.....	71,328
Indiana.....	318,675	Tennessee.....	371,931
Illinois.....	1,203,300	Alabama.....	288,443
Michigan.....	200,848	Mississippi.....	70,972
Wisconsin.....	65,083	Arkansas.....	182,112
West North Central ¹	538,455	Louisiana.....	519,244
Iowa.....	75,835	Oklahoma.....	36,139
Missouri.....	422,053	Texas.....	1,363,031
Kansas.....	32,177	West ¹	803,754
		Wyoming.....	12,885
		Colorado.....	17,233
		Utah.....	57,803
		Washington.....	21,801
		California.....	564,832

D Withheld to avoid disclosing figures of individual companies. ¹In addition, quantities of sulfuric acid were consumed in the following states, for which data could not be shown without disclosing figures for individual companies: Maine, Rhode Island, Minnesota, North Dakota, Nebraska, Montana, Idaho, New Mexico, Arizona, Nevada and Oregon.

Table 2B.—NITRIC ACID (281925) CONSUMED BY SELECTED INDUSTRIES FOR DIVISIONS AND STATES: 1954 AND 1947
(Based on data for establishments classified in the industries listed in Table 1 for the same material)

Division and State	Short tons of 100% HNO ₃		Division and State	Short tons of 100% HNO ₃	
	1954	1947		1954	1947
United States, total.....	2,062,848	1,313,664	South Atlantic ¹	401,026	1,152
Northeast ¹	233,577	371,930	West Virginia.....	(D)	1,009
New York.....	(D)	31,439	North Carolina.....	...	(D)
New Jersey.....	198,211	312,779	South Carolina.....	...	(D)
Pennsylvania.....	(D)	16,224	East South Central ¹	176,491	133,019
North Central ¹	662,569	615,211	Alabama.....	(D)	132,902
Ohio.....	(D)	428,306	West South Central ¹	524,040	132,631
Illinois.....	111,493	14,604	Louisiana.....	198,453	...
Michigan.....	(D)	864	West ¹	65,145	59,721
Missouri.....	29,287	(D)	Washington.....	13,965	(D)
			California.....	(D)	35,114

D Withheld to avoid disclosing figures of individual companies. ¹In addition, quantities of nitric acid were consumed in the following states, for which data could not be shown without disclosing figures for individual companies; Massachusetts, New York, Indiana, Wisconsin, Kansas, Virginia, Florida, Tennessee, Mississippi, Arkansas, Texas, Colorado, Arizona and Utah.

Table 2C.—AMMONIA, SYNTHETIC ANHYDROUS (281931) CONSUMED BY SELECTED INDUSTRIES FOR DIVISIONS AND STATES: 1954
(Based on data for establishments classified in the industries listed in Table 1 for the same material)

Division and State	Short tons of 100% NH ₃	Division and State	Short tons of 100% NH ₃
United States, total.....	2,008,610	North Central ¹ —Continued	
Northeast ¹	145,103	Iowa.....	5,265
New England ¹	8,527	Missouri.....	19,691
Middle Atlantic.....	136,576	South ¹	1,148,877
New York.....	35,404	Maryland.....	32,984
New Jersey.....	75,285	West Virginia.....	152,666
Pennsylvania.....	25,887	North Carolina.....	9,475
North Central ¹	574,771	South Carolina.....	3,862
Ohio.....	253,151	Georgia.....	6,930
Indiana.....	11,985	Florida.....	2,860
Illinois.....	64,765	Tennessee.....	31,854
Michigan.....	20,304	Alabama.....	7,450
Wisconsin.....	15,105	Louisiana.....	132,971
		Texas.....	267,198
		West ¹	139,859
		Washington.....	15,647
		California.....	113,754

D Withheld to avoid disclosing figures of individual companies. ¹In addition, quantities of ammonia, anhydrous were consumed in the following states, for which data could not be shown without disclosing figures for individual companies; Maine, Massachusetts, Connecticut, Minnesota, Nebraska, Kansas, Delaware, Virginia, Kentucky, Mississippi, Arkansas, Oklahoma, Montana, Colorado, Arizona, Utah, and Oregon.

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Table 2D.—SODIUM CARBONATE (SODA ASH—281231) CONSUMED BY SELECTED INDUSTRIES FOR DIVISIONS AND STATES: 1954 AND 1947
(Based on data for establishments classified in the industries listed in Table 1 for the same material)

Division and State	Short tons of 58% Na ₂ O		Division and State	Short tons of 58% Na ₂ O	
	1954	1947		1954	1947
United States, total.....	14,261,740	*3,839,314	South ²	1,419,001	1,166,280
New England ²	71,154	41,524	Maryland.....	69,581	41,859
Maine.....	12,473	10,177	Virginia.....	298,430	391,462
Massachusetts.....	23,637	16,164	West Virginia.....	260,097	265,691
Connecticut.....	736	723	North Carolina.....	14,760	8,832
Middle Atlantic.....	1,049,926	954,942	South Carolina.....	42,491	16,359
New York.....	366,829	447,611	Georgia.....	11,294	784
New Jersey.....	333,383	197,161	Florida.....	1,057	5,566
Pennsylvania.....	349,714	310,170	Tennessee.....	35,174	20,201
East North Central.....	1,318,412	1,405,428	Alabama.....	60,600	973
Ohio.....	331,347	627,005	Mississippi.....	18,171	10,328
Indiana.....	177,208	150,620	Arkansas.....	139,468	(D)
Illinois.....	421,639	238,810	Louisiana.....	278,034	210,759
Michigan.....	376,023	383,612	Oklahoma.....	64,891	39,537
Wisconsin.....	12,195	4,794	Texas.....	77,985	79,057
West North Central ²	156,174	72,027	West ²	247,073	165,163
Minnesota.....	12,211	2,247	Colorado.....	(D)	2,865
Missouri.....	81,834	45,967	Washington.....	8,792	10,023
Kansas.....	61,405	23,813	Oregon.....	(D)	574
			California.....	237,142	151,701

*Revised and includes 33,950 tons consumed by establishments classified in the flat glass, glass and glassware industries, for which state and division information is not shown. D Withheld to avoid disclosing figures of individual companies. ¹Includes liquid ash. ²In addition, quantities of sodium carbonate (soda ash) were consumed in the following states for which data could not be shown without disclosing figures for individual companies; New Hampshire, Iowa, Nebraska (1954), Delaware, Kentucky and Utah (1954).

Table 2E.—SODIUM HYDROXIDE (CAUSTIC SODA—281221) CONSUMED BY SELECTED INDUSTRIES FOR DIVISIONS AND STATES: 1954 AND 1947
(Based on data for establishments classified in the industries listed in Table 1 for the same material)

Division and State	Short tons of 100% NaOH		Division and State	Short tons of 100% NaOH	
	1954	1947		1954	1947
United States, total ¹	2,431,757	1,324,748	South Atlantic—Continued		
New England ¹	74,315	86,643	North Carolina.....	63,653	34,046
Maine.....	22,718	7,610	South Carolina.....	2,982	(D)
Massachusetts.....	20,896	24,385	Georgia.....	17,260	15,040
Rhode Island.....	(D)	34,067	Florida.....	26,235	13,213
Connecticut.....	11,087	(D)	East South Central.....	237,275	58,759
Middle Atlantic.....	330,760	261,462	Kentucky.....	11,823	(D)
New York.....	118,420	93,612	Tennessee.....	109,438	55,580
New Jersey.....	135,050	93,369	Alabama.....	80,467	1,790
Pennsylvania.....	77,290	74,481	Mississippi.....	35,547	(D)
North Central ¹	516,481	440,398	West South Central.....	641,081	(D)
Ohio.....	91,151	123,219	Arkansas.....	8,690	(D)
Indiana.....	29,701	86,290	Louisiana.....	116,989	29,853
Illinois.....	134,563	142,182	Oklahoma.....	5,274	15,614
Michigan.....	200,380	44,934	Texas.....	510,128	26,592
Wisconsin.....	9,837	5,554	Mountain ¹	26,426	(D)
Minnesota.....	2,891	4,035	Montana.....	1,468	...
Missouri.....	14,853	(D)	Wyoming.....	1,611	(D)
Kansas.....	10,452	16,221	Colorado.....	(D)	3,518
South Atlantic.....	408,013	310,778	Utah.....	1,586	...
Delaware.....	6,315	(D)	Pacific.....	197,406	85,345
Maryland.....	20,833	23,305	Washington.....	63,007	23,615
Virginia.....	168,205	142,464	Oregon.....	8,180	752
West Virginia.....	102,530	72,940	California.....	126,219	60,978

D Withheld to avoid disclosing figures of individual companies. ¹In addition, quantities of sodium hydroxide were consumed in the following states for which data could not be shown without disclosing figures for individual companies; New Hampshire, Vermont, Iowa, North Dakota (1954), Nebraska, Idaho, New Mexico and Nevada.

Table 2F.—CHLORINE (281211) CONSUMED BY SELECTED INDUSTRIES FOR DIVISIONS AND STATES: 1954 AND 1947

(Based on data for establishments classified in the industries listed in Table 1 for the same material)

Division and State	(Short tons of 100% Cl ₂)		Division and State	(Short tons of 100% Cl ₂)	
	1954	1947		1954	1947
United States, total.....	2,559,528	1,215,102	South ¹	1,461,953	623,145
New England ¹	46,571	17,029	Maryland.....	9,126	5,537
Maine.....	25,781	11,009	Virginia.....	22,034	(D)
New Hampshire.....	12,309	(D)	North Carolina.....	35,069	17,113
Massachusetts.....	5,219	3,476	Georgia.....	20,601	9,380
Connecticut.....	(D)	696	Florida.....	11,680	2,887
Middle Atlantic.....	332,177	184,841	Kentucky.....	120,166	...
New York.....	265,099	135,022	Tennessee.....	14,947	(D)
New Jersey.....	34,855	27,062	Alabama.....	36,733	7,133
Pennsylvania.....	32,223	22,757	Louisiana.....	118,025	55,704
East North Central ¹	458,992	327,057	Texas.....	854,556	237,502
Ohio.....	60,956	38,424	West ¹	236,503	60,847
Indiana.....	54	50	Washington.....	115,914	(D)
Illinois.....	65,779	32,449	Oregon.....	6,412	(D)
Michigan.....	281,623	225,497	California.....	67,135	33,439
Wisconsin.....	50,580	30,637			
West North Central ¹	23,332	2,183			
Minnesota.....	10,390	682			
Kansas.....	(D)	48			

D Withheld to avoid disclosing figures of individual companies. ¹In addition quantities of chlorine gas were consumed in the following states, for which data could not be shown without disclosing figures for individual companies or for which the data may not be reliable; Rhode Island, Delaware (1947), Iowa, Missouri, South Carolina, Mississippi, Arkansas, Oklahoma, Idaho (1954), Colorado, Nevada and Montana (1947).

Table 2G.—RUBBER CONSUMED IN THE RUBBER PRODUCT INDUSTRY GROUP, BY DIVISIONS AND STATES: 1954 AND 1947

(Based on data for establishments classified in the industries listed in Table 1 for the same material)

Division and State	Total				Natural rubber (086113 - 086115)			
	1954 ¹		1947 ²		1954		1947	
	Quantity (Long tons)	Delivered cost (\$1,000)	Quantity (Long tons)	Delivered cost (\$1,000)	Quantity (Long tons)	Delivered cost (\$1,000)	Quantity (Long tons)	Delivered cost (\$1,000)
United States, total ³	1,406,825	651,836	1,298,854	520,638	586,359	293,848	533,512	258,438
Northeast ³	338,045	171,521	307,089	125,338	148,407	80,490	118,452	58,828
New England ³	174,647	90,120	146,827	61,026	81,022	45,274	60,964	30,760
New Hampshire.....	2,147	1,220	584	1,114	(D)	(D)	315	612
Massachusetts.....	115,611	58,700	101,767	40,938	47,784	26,870	38,701	19,647
Rhode Island.....	10,556	6,875	9,052	4,421	8,725	5,656	5,018	2,864
Connecticut.....	40,652	21,310	30,977	12,569	22,755	11,932	16,014	7,190
Middle Atlantic.....	163,398	81,401	160,262	64,312	67,385	35,216	57,488	28,068
New York.....	37,893	21,215	33,216	13,642	20,748	12,253	11,574	6,006
New Jersey.....	31,589	17,466	32,536	13,692	12,577	7,002	9,835	5,284
Pennsylvania.....	93,916	42,720	94,510	36,978	34,060	15,961	36,079	16,778
North Central ³	675,725	299,842	665,768	265,454	281,322	139,142	286,445	136,820
East North Central.....	600,436	267,343	617,967	246,381	252,695	125,938	268,080	127,944
Ohio.....	358,962	160,290	392,480	149,282	155,528	77,321	186,172	88,265
Indiana.....	54,421	27,401	44,331	23,217	18,204	10,040	9,756	5,419
Illinois.....	21,977	6,982	15,970	5,881	(D)	(D)	3,433	1,747
Michigan.....	121,512	52,512	117,563	48,581	53,248	25,420	52,229	24,704
Wisconsin.....	43,564	20,158	47,623	19,419	(D)	(D)	16,490	7,809
West North Central ³	75,289	32,499	47,801	19,073	28,627	13,204	18,365	8,876
Iowa.....	39,424	17,311	21,342	8,742	14,109	6,367	8,224	4,085
Missouri.....	3,387	1,810	6,027	3,543	(D)	(D)	2,427	1,152
Nebraska.....	(D)	(D)	1,565	419	(D)	(D)	364	176
Kansas.....	30,758	12,356	(D)	(D)	(D)	(D)	(D)	(D)
South ³	245,754	111,489	199,352	81,538	96,875	44,922	79,382	39,220
South Atlantic ³	57,431	28,009	40,854	17,917	21,095	10,604	15,973	8,067
Maryland.....	39,263	18,241	32,968	15,062	16,514	7,686	14,988	7,627
Virginia.....	5,418	2,676	(D)	(D)	(D)	(D)	(D)	(D)
Georgia.....	4,508	2,540	...	...	1,905	1,336	...	...
East South Central ³	129,894	59,153	120,855	48,345	50,850	22,725	48,017	23,814
Tennessee.....	46,278	20,423	55,272	21,826	19,338	8,765	25,390	13,182
Alabama.....	69,613	32,553	55,774	22,228	(D)	(D)	18,581	8,686
West South Central ³	58,429	24,327	37,643	15,276	24,930	11,593	15,392	7,339
West ³	147,301	68,984	126,645	48,308	59,755	29,294	49,233	23,570
California.....	126,573	58,298	107,745	41,906	51,956	25,603	42,764	20,379

See footnotes at end of table.

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Table 2G.—RUBBER CONSUMED IN THE RUBBER PRODUCT INDUSTRY GROUP, BY DIVISIONS AND STATES: 1954 AND 1947—Continued

(Based on data for establishments classified in the industries listed in Table 1 for the same material)

Division and State	Synthetic and other rubber (282410 - 282415)				Reclaimed rubber (303111)			
	1954		1947		1954 ¹		1947 ²	
	Quantity (Long tons)	Delivered cost (\$1,000)	Quantity (Long tons)	Delivered cost (\$1,000)	Quantity (Long tons)	Delivered cost (\$1,000)	Quantity (Long tons)	Delivered cost (\$1,000)
United States, total.....	592,606	313,972	511,275	228,648	227,860	44,016	254,067	33,552
Northeast.....	147,745	82,644	123,863	56,418	41,893	8,387	64,774	10,092
New England.....	74,812	41,227	57,570	26,744	18,813	3,619	28,293	3,522
New Hampshire.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Massachusetts.....	54,150	29,150	41,217	19,023	13,677	2,680	21,849	2,268
Rhode Island.....	1,817	1,216	2,773	1,331	14	3	1,261	226
Connecticut.....	14,490	8,640	10,304	4,507	3,407	738	4,659	872
Middle Atlantic.....	72,933	41,417	66,293	29,674	23,080	4,768	36,481	6,570
New York.....	12,828	8,048	12,863	6,149	4,317	914	8,779	1,487
New Jersey.....	13,743	9,271	10,830	5,774	5,269	1,193	11,871	2,634
Pennsylvania.....	46,362	24,098	42,600	17,751	13,494	2,661	15,831	2,449
North Central.....	256,896	134,427	248,084	110,408	137,507	26,273	131,239	18,226
East North Central.....	223,259	117,357	227,224	101,702	124,482	24,048	122,663	16,735
Ohio.....	128,281	69,440	129,734	59,055	75,153	13,529	76,574	1,963
Indiana.....	26,919	15,505	20,709	9,457	9,298	1,856	13,866	8,341
Illinois.....	(D)	(D)	6,676	2,556	(D)	(D)	5,861	1,578
Michigan.....	41,627	21,302	46,308	20,349	26,637	5,790	19,026	3,528
Wisconsin.....	(D)	(D)	23,797	10,285	(D)	(D)	7,336	1,325
West North Central.....	33,637	17,070	20,860	8,706	13,025	2,225	8,576	1,491
Iowa.....	(D)	(D)	9,197	3,963	(D)	(D)	3,921	694
Missouri.....	1,854	1,124	2,238	1,029	(D)	(D)	1,362	259
Nebraska.....	(D)	(D)	152	71	(D)	(D)	1,049	172
Kansas.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
South.....	120,013	61,222	88,446	39,134	28,866	5,345	31,524	3,184
South Atlantic.....	29,686	16,009	18,026	8,413	6,650	1,396	6,855	1,437
Maryland.....	18,711	9,874	14,103	6,462	4,038	681	3,877	973
Virginia.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Georgia.....	(D)	(D)	...	...	(D)	(D)	...	...
East South Central.....	66,265	34,097	54,203	23,813	12,779	2,331	18,635	718
Tennessee.....	20,727	10,662	19,449	8,434	6,213	996	10,433	210
Alabama.....	37,970	19,564	30,462	(D)	(D)	(D)	6,731	(D)
West South Central.....	24,062	11,116	16,217	6,908	9,437	1,618	6,034	1,029
West.....	67,952	35,679	50,882	22,688	19,594	4,011	26,530	2,050
California.....	55,290	28,761	45,084	19,843	19,327	3,934	19,897	1,684

D Withheld to avoid disclosing figures for individual companies. ¹Excludes 32,841 long tons of reclaimed rubber consumed in establishments producing reclaimed rubber. ²Includes 69,404 long tons of reclaimed rubber made and consumed, the cost of which is excluded from the money figures. ³In addition, quantities of rubber were consumed by plants located in the following states for which data could not be shown without disclosing figures for individual companies: Maine, Vermont, Minnesota, Delaware, West Virginia, North Carolina, Kentucky, Mississippi, Oklahoma, Texas, Colorado, Washington, and Oregon. In 1954 only, South Carolina, Florida, Arkansas, and Utah.

Metals

This section presents data on the consumption of metal mill shapes and forms, foundry products, refinery shapes and scrap.

Mill Shapes and Castings

The materials used by the metal-fabricating industries in producing machinery, automobiles, and thousands of other products consist primarily of metal mill shapes and forms and castings. The tables which follow show the consumption, in terms of value and quantity of the most important of these metals, namely--steel, aluminum, and copper and copper-base alloy mill shapes and forms; and iron, steel, copper and copper-base alloy and aluminum castings. Steel mill shapes are divided into carbon, alloy and stainless, with carbon steel subdivided into six shapes--bars, sheet and strip, structural shapes, plates, wire and wire products and all other. Alloy steel (other than stainless) is split two ways--bars and all other. Copper and copper-base alloy is split three ways--bare wire, insulated wire and cable and all other. For each of the other metals (stainless steel and aluminum), the mill shapes are shown only in total as is each of the casting items.

The tables on consumption by industry include data for approximately 100 metal-fabricating industries, representing all significant users of metal in manufacturing. These industries fall within the broad groups of industries covered from "Fabricated metal products" through "Transportation equipment" with the addition of those industries producing metal furniture in the 2-digit group "Furniture and fixtures" and a few miscellaneous industries.

Although there were certain industries consuming metal such as Machine shops and Fabricated metal products, n.e.c., from which consumption data were either collected or did not meet publication standards the effect of such industries on coverage is very small.

This is the case in spite of the use of minimum limits for the reporting of each metal shape by each establishment in order to relieve very small consumers of the necessity of reporting amounts that were negligible in terms of the total consumption. For each shape, manufacturing establishments were required to report consumption in quantity and cost, if the usage of a particular material totaled \$5,000 or more. In the 1947 Census other minimum cut-offs were used. In the case of metals consumed, consumption data were not called for if the quantities consumed were less than 50 tons for iron and steel castings and six carbon steel shapes; the 25 tons for alloy steel and 10 tons for stainless steel, copper and copper-base alloy mill shapes and castings and aluminum and aluminum-base alloy mill shapes and castings. While the use of a \$5,000 value cut-off in the 1954 Census of Manufactures necessitated the reporting of tonnages which in 1947 would have been excluded, the effect of this on the comparability of these data is believed to be negligible. It is estimated that the use of the 1954 minimum requirements on the coverage of these materials would not as a maximum equal 2 percent of total manufacturing consumption.

In comparing the consumption data with production figures of mill shapes and castings, it should be noted that the consumption data cover manufacturing industries only. Consumption of these metal shapes in construction, mining, farm uses, construction and maintenance of power lines, and in other nonmanufacturing areas, such as export, is not covered.

The tables on consumption by geographic divisions and States include data on the total consumption of the 17 selected mill shapes and castings in those geographic areas. The data shown for each area represent the total consumption in that State or division by all of the industries listed in the table on consumption by industry. The minimum consumption limits specified for reporting tonnages and values, discussed in a preceding paragraph, together with the exclusion of certain industries from reporting consumption data, result in a slight variation of coverage from State to State. States containing a large proportion of small establishments or of establishments in industries for which metal consumed data were not obtained have a somewhat lower coverage than the country as a whole.

In order to arrive at a total consumption of mill shapes and forms and castings in the manufacture of fabricated products, it is necessary to add to consumption by establishments in the metal-fabricating industries, those tonnages used by the metal mills and foundries themselves in the manufacture of fabricated products within the same establishment. The data on mill shapes and castings produced and consumed within the same establishment were obtained in quantity terms only. In the table on consumption by States (table 2A) the data on the use of steel mill shapes by the producing establishments themselves

are shown in quantity only, separately from the fabricating industries data. For copper and aluminum mill shapes and for all castings the State tables are limited to purchased materials as the data on consumption by producing establishments for these items either could not be shown because of disclosure or were not sufficiently complete.

The consumption data shown for each industry represent only the direct utilization of the specified mill shapes and castings by the reporting establishment and not the total metal content of the final product of the establishment. For example, the steel shown as consumed by the motor vehicle industry, represents only the steel consumed directly by establishments classified in the motor vehicle industry, in the forms of bars, sheets, etc. It does not include the weight of metal in sub-assemblies, steel stampings, forgings, wire products, etc., incorporated into the finished vehicles, but made by establishments classified in other industries.

Although the inquiry on metals consumed on the 1954 census schedules did not include a definition of the metal shapes specified, the metal fabricating companies' familiarity with the terms and their meaning provided a high degree of uniformity in reporting. For the user of the metals consumed data in the tables which follow, it may be noted that in the steel section, the term "bars and bar shapes" includes hot-rolled and cold-finished bars, concrete reinforcing bars, and tool-steel bars; sheet and strip includes hot- and cold-rolled, galvanized, and long ternes, but excludes tin plate, terne plate, and black plate; wire and wire products includes plain, galvanized, and other coated wire; as well as nails and spikes and the like; all other carbon steel mill shapes and forms includes ingots, billets, wire rods, tin plate, terne plate, black plate, pipe, tubing, and rails, but not forgings or materials fabricated beyond the steel mill level.

The copper and copper-base alloy and aluminum rolled, drawn, and extruded shapes are similar to the steel mill products listed above, i.e., sheets, strip, bars, tubing, wire, etc. They do not include wire bars, ingots, or other unrolled forms of copper or aluminum.

In the 1954 Census of Manufactures data on the quantity and value of insulated wire and cable consumed were collected for the metal fabricating industries. Also, data on the consumption of wire by the Insulated Wire and Cable Industry (3631) are shown in the table on consumption by industries. Because both the consumption of wire by the insulating industry and the consumption of insulated wire and cable by metal fabricators is shown, the addition of the three classes of copper materials--bare wire, insulated wire and cable, and all other copper and copper-base alloy mill shapes for the total of all industries will include duplication. In the data on consumption by States, the consumption by Industry 3631, Insulated Wire and Cable, has been excluded.

The castings (iron and steel, etc.) reported are only those in the rough and semifinished forms in which they are usually received from foundries. Castings, which had undergone extensive machining or other operations prior to their receipt at the consuming establishment, were considered as fabricated products rather than rough castings, and are not included in these data. However, such castings are reported as consumed by the establishments performing the machining operations.

Nonferrous Refinery Shapes and Scrap

Consumption of materials by the primary metal industries is represented in the tables in this section by five commodities: Aluminum and aluminum base alloy refinery shapes and scrap (except home scrap); copper and copper-base alloy refinery shapes and scrap (except home scrap) and zinc and zinc-base alloy refinery shapes. For these five materials, the coverage obtained in the Census of Manufactures was substantially complete.

There is a certain degree of duplication in the consumption of the refinery shapes, which stems from the fact that secondary smelters and refiners consume unalloyed metal refinery shapes in order to produce alloy ingots. The consumption of refinery shapes by secondary smelters and refiners is shown separately in the distribution by industry.

Information on a number of other materials consumed by some of the primary metal industries has been collected and published in individual reports for those industries, but the industries covered do not account for all of the consumption of the particular material.

Table 1A.—CONSUMPTION OF STEEL MILL

Code	Consuming industry	Steel mill shapes and forms							
		Total steel		Carbon steel					
				Bars and bar shapes (331211 and 331243)		Steel and strip (331212)		Structural shapes (331215)	
		Short tons	Delivered cost (\$1,000)	Short tons	Delivered cost (\$1,000)	Short tons	Delivered cost (\$1,000)	Short tons	Delivered cost (\$1,000)
	Metal producing and fabricating industries, total.....	48,503,085	(NA)	6,944,519	(NA)	19,316,284	(NA)	4,011,024	(NA)
	Primary metal industries, total ² ...	2,104,897	(NA)	460,352	(NA)	474,845	(NA)	111,768	(NA)
	Metal fabricating industries, total ³	46,398,188	7,042,200	6,484,167	882,018	18,841,439	2,420,331	3,899,256	449,697
19	Ordnance and accessories.....	1,006,289	183,609	315,840	45,018	147,593	20,940	121,132	13,449
25	Furniture and fixtures.....	41,160,103	166,936			4902,912	117,389		
2511	Wood furniture, not upholstered.....	28,639	5,136			18,388	2,585		
2512	Upholstered household furniture.....	11,338	2,217			5,251	899		
2514	Metal household furniture.....	342,814	49,869			239,979	29,824		
2515	Mattresses and bedsprings.....	128,076	17,815			41,733	5,887		
2521	Wood office furniture.....	3,133	590			(6)	(6)		
2522	Metal office furniture.....	211,692	27,683	(NA)	(NA)	204,375	26,160	(NA)	(NA)
2531	Public-building furniture.....	71,062	10,200			59,654	7,987		
2532	Professional furniture.....	25,464	4,083			19,482	2,410		
2541	Partitions and fixtures.....	232,325	32,063			218,985	28,468		
2563	Venetian blinds.....	486,384	13,639			81,934	11,471		
2591	Restaurant furniture.....	46,303	1,976			(NA)	271		
2599	Furniture and fixtures, n.e.c.....	12,873	1,665			11,411	1,427		
3391	Iron and steel forgings.....	1,489,785	209,744	627,438	71,605	(NA)	(NA)	(NA)	(NA)
34	Fabricated metal products.....	21,430,260	3,118,333	2,301,549	293,320	6,603,727	857,445	2,825,923	313,165
3411	Tin cans and other tinware.....	4,108,369	676,548	1,691	231	29,728	4,096	(6)	(6)
3421	Cutlery.....	25,985	12,867	5,437	841	11,561	4,948	(6)	(6)
3422	Edge tools.....	27,853	5,731	13,582	2,145	11,228	2,062	...	...
3423	Hand tools, n.e.c.....	155,479	25,224	62,906	8,546	53,847	7,180	517	72
3424	Files.....	15,787	2,748	15,787	2,748	(NA)	(NA)	...	...
3425	Hand saws and saw blades.....	20,159	12,961	2,824	649	5,005	3,432	...	...
3429	Hardware, n.e.c.....	704,527	128,708	65,135	9,819	511,402	75,569	5,190	683
3431	Plumbing fixtures and fittings.....	87,679	13,413	(6)	(6)	77,359	9,854	(6)	(6)
3439	Heating and cooking equipment, n.e.c.....	901,450	123,913	29,700	4,119	761,597	95,876	3,602	638
3441	Structural and ornamental work.....	5,445,093	625,324	1,149,804	130,583	659,914	83,364	2,595,160	282,497
3442	Metal doors, sash and trim.....	398,113	60,209	145,899	18,748	189,107	24,685	26,471	3,101
3443	Boiler shop products.....	2,259,969	300,003	83,441	10,934	336,355	37,424	160,018	21,321
3444	Sheet-metal work.....	1,138,518	160,513	28,914	4,219	978,318	130,593	25,660	3,367
3461	Vitreous-enamelled products.....	82,414	11,013	(6)	(6)	73,371	9,434	(6)	(6)
3463	Metal stampings.....	2,273,203	358,330	66,360	9,783	1,631,076	203,266	1,635	281
3471	Lighting fixtures.....	260,018	42,322	13,453	2,050	219,347	29,865	1,540	266
3481	Nails and spikes.....	56,625	8,538	(6)	(6)	19,059	2,763	...	...
3489	Wirework, n.e.c.....	1,065,428	198,856	46,561	6,062	162,670	25,738	4,400	738
3491	Metal barrels, drums, and pails.....	771,227	95,196	4,360	533	741,562	90,400	(6)	(6)
3493	Steel springs.....	355,392	50,139	82,761	10,115	6,135	814	(6)	(6)
3494	Bolts, nuts, washers, and rivets.....	1,056,387	159,774	*304,441	38,440	118,748	15,112	1,730	201
3495	Screw machine products.....	220,585	46,003	178,493	32,755	6,338	970	(6)	(6)
35	Machinery, except electrical.....	6,674,574	1,213,980	1,423,131	223,040	2,126,271	293,189	494,975	66,484
3511	Steam engines and turbines.....	78,291	29,632	7,604	1,253	2,460	346	4,958	582
3519	Internal combustion engines.....	56,716	12,040	10,961	1,981	23,300	3,650	1,644	221
3521	Tractors.....	571,337	73,380	168,155	21,112	71,767	8,276	61,356	7,103
3522	Farm machinery (except tractors).....	982,124	126,600	409,621	50,174	376,976	44,788	44,822	5,462
3531	Construction and mining machinery.....	640,583	85,905	117,828	16,637	70,382	8,540	92,541	11,654
3532	Oil-field machinery and tools.....	348,298	68,633	51,788	7,530	16,843	2,133	54,548	7,034
3541	Machine tools.....	87,044	24,101	34,119	8,115	6,163	961	5,411	1,189
3542	Metalworking machinery.....	202,484	35,943	39,962	7,613	26,535	3,530	6,763	1,092
3544	Special dies and tools.....	158,813	40,762	52,634	14,396	31,457	4,250	(6)	(6)
3545	Metalworking machinery attachments.....	50,909	32,856	15,258	4,771	2,275	1,141	(6)	(6)
3551	Food-products machinery.....	101,749	29,579	22,872	4,401	28,809	4,562	9,256	1,405
3552	Textile machinery.....	63,300	18,916	29,040	5,738	14,133	3,474	3,783	847
3553	Woodworking machinery.....	24,718	6,028	8,677	1,700	3,922	778	3,894	688
3554	Paper-industries machinery.....	41,338	10,411	11,196	2,425	1,418	274	4,128	615
3559	Special-industry machinery, n.e.c.....	202,772	42,808	48,750	8,837	33,609	5,066	19,977	2,858
3561	Pumps and compressors.....	139,071	31,732	29,777	5,732	23,655	3,749	6,245	1,011
3562	Elevators and escalators.....	64,162	11,089	11,225	1,943	10,944	1,825	14,255	1,859
3563	Conveyors.....	295,888	43,003	53,774	7,623	61,002	8,063	79,434	10,983
3564	Blowers and fans.....	137,742	19,692	12,343	1,606	89,330	11,857	2,223	318
3565	Industrial trucks and tractors.....	168,121	21,726	33,082	4,229	28,990	3,331	27,077	3,295

See footnotes at end of table 1D.

SELECTED MATERIALS CONSUMED

210-35

SHAPES AND FORMS, BY INDUSTRY: 1954

Steel mill shapes and forms--Continued												
Carbon steel--Continued						Alloy steel (except stainless)				Stainless steel, All mill shapes and forms (331231, 331247, 331248, and 331249)		Code
Plates (331213)		Wire and wire products (331217)		All other mill shapes and forms ¹ (331218, 331219, 331241, and 331242)		Bars and bar shapes (331221 and 331246)		All other mill shapes and forms (331225, 331244, and 331245)				
Short tons	Delivered cost (\$1,000)	Short tons	Delivered cost (\$1,000)	Short tons	Delivered cost (\$1,000)	Short tons	Delivered cost (\$1,000)	Short tons	Delivered cost (\$1,000)	Short tons	Delivered cost (\$1,000)	
4,936,549	(NA)	2,011,742	(NA)	7,421,562	(NA)	1,982,833	(NA)	1,466,243	(NA)	412,329	(NA)	
180,865	(NA)	169,166	(NA)	394,860	(NA)	23,796	(NA)	276,972	(NA)	12,273	(NA)	
4,755,684	545,915	1,842,576	342,265	7,026,702	1,179,564	1,959,037	415,285	1,189,271	365,875	400,056	441,250	
105,261	15,275	10,291	2,428	181,466	45,926	71,139	11,279	50,873	25,527	2,694	3,767	19
				4214,845	36,811			438,285	10,345	4,061	2,391	25
				9,701	2,174			336	148	214	229	2511
				5,530	1,093			557	225	(NA)	(NA)	2512
				68,128	12,180			33,734	6,898	973	967	2514
				86,131	11,770			5212	5158	(5)	(5)	2515
				63,133	6590			(NA)	(NA)	(NA)	(NA)	2521
(NA)	(NA)	(NA)	(NA)	7,317	1,523	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	2522
				11,408	2,213			(NA)	(NA)	(NA)	(NA)	2531
				65,982	61,673			(6)	(6)	(6)	(6)	2532
				12,094	2,285			51,246	51,310	(5)	(5)	2541
				(NA)	562			(NA)	1,606	(NA)	(NA)	2563
				1,709	510			(NA)	(NA)	2,874	1,195	2591
				1,462	238			(NA)	(NA)	(NA)	(NA)	2599
(NA)	(NA)	(NA)	(NA)	297,970	29,346	345,504	56,790	197,185	33,731	21,688	18,272	3391
2,470,230	276,310	1,467,489	257,862	5,083,943	842,637	326,486	57,966	190,759	57,604	160,154	162,024	34
...	...	8,795	1,417	64,067,679	6670,231	...	...	476	573	...	...	3411
(6)	(6)	244	93	61,063	6278	(5)	(5)	52,153	51,480	5,527	5,227	3421
(6)	(6)	(6)	(6)	6725	6147	1,855	1,079	423	262	40	36	3422
611	91	13,449	3,079	3,064	740	19,077	4,046	1,482	878	526	592	3423
...	...	...	...	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	3424
745	276	679	145	271	189	2,996	2,416	7,607	5,819	32	35	3425
5,657	651	67,698	12,841	19,249	4,986	1,492	596	2,128	1,267	26,576	22,296	3429
2,558	398	446	126	64,142	6886	(5)	(5)	51,074	5219	2,100	1,930	3431
69,296	8,962	3,249	699	23,824	5,168	(5)	(5)	52,674	51,534	7,508	6,917	3439
741,795	81,529	41,965	6,660	224,089	32,860	4,440	885	24,449	3,692	3,477	3,254	3441
6,596	834	4,149	748	10,282	2,716	1,456	321	4,588	630	9,565	8,426	3442
1,491,843	166,019	4,303	903	128,831	29,434	5,438	1,493	36,862	14,197	12,878	18,278	3443
65,041	7,580	1,448	324	28,739	4,515	(5)	(5)	52,525	5770	7,873	9,145	3444
(6)	(6)	(6)	(6)	66,729	61,006	1,505	209	636	203	173	161	3461
67,237	8,062	24,098	4,629	384,308	62,054	4,458	1,998	32,040	7,683	61,991	60,574	3463
4,093	720	9,625	2,398	3,030	947	(5)	(5)	52,542	5633	6,388	5,443	3471
(6)	(6)	27,037	4,808	610,529	6967	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	3481
(6)	(6)	805,006	148,842	629,826	66,022	9,110	1,940	3,859	2,483	3,996	7,031	3489
2,783	307	3,575	610	618,393	62,648	(NA)	(NA)	(NA)	(NA)	554	698	3491
1,095	126	8,654	3,596	6501	696	235,064	32,313	21,117	3,001	65	78	3493
10,880	755	436,319	64,809	112,870	15,402	22,165	5,979	42,271	11,233	6,963	7,843	3494
(6)	(6)	6,750	1,135	65,799	61,345	17,430	4,691	1,853	1,047	3,922	4,060	3495
1,059,824	129,444	78,036	24,360	667,609	136,218	437,707	132,320	311,491	122,213	75,530	86,712	35
35,435	3,917	(6)	(6)	69,398	66,905	2,566	1,497	9,676	8,796	6,194	6,336	3511
7,521	838	(6)	(6)	63,875	6907	5,350	2,054	2,805	1,077	1,260	1,312	3519
79,828	8,629	819	142	100,841	15,322	50,068	7,355	38,333	5,286	170	155	3521
63,664	7,623	11,889	2,263	57,260	10,825	8,930	1,754	7,175	1,655	1,787	2,056	3522
265,981	28,924	7,196	1,871	39,721	6,643	27,362	6,318	18,523	4,124	1,049	1,194	3531
27,828	3,468	1,726	702	38,461	7,924	114,035	24,895	41,299	13,180	1,770	1,767	3532
11,895	2,260	(6)	(6)	66,377	61,832	17,125	6,707	5,509	2,349	445	688	3541
95,898	11,867	590	371	17,487	4,513	10,014	4,018	4,536	2,080	699	859	3542
41,489	6,893	(6)	(6)	615,759	63,250	10,444	9,276	6,620	2,062	410	635	3544
1,670	302	(6)	(6)	65,517	61,624	21,895	18,820	54,294	56,198	(5)	(5)	3545
16,790	2,271	540	186	7,107	1,896	2,898	1,393	2,962	1,276	10,515	12,189	3551
3,108	436	5,247	3,181	2,850	687	1,570	578	870	369	2,699	3,606	3552
2,422	507	(6)	(6)	62,569	6650	1,772	966	1,423	686	39	53	3553
12,608	1,604	4,522	690	3,287	1,081	(5)	(5)	52,604	51,269	1,575	2,453	3554
66,066	8,488	4,479	1,085	15,048	3,521	2,910	1,276	3,644	1,606	8,289	10,071	3559
15,237	2,427	857	159	47,373	10,414	5,731	2,077	6,495	2,434	3,701	3,729	3561
8,253	1,207	889	446	17,146	2,842	736	226	320	276	394	465	3562
69,286	8,843	1,796	566	23,769	4,480	3,896	1,077	2,128	375	803	993	3563
24,962	2,801	1,174	575	5,204	791	547	137	855	394	1,104	1,213	3564
50,619	5,623	7,341	1,147	14,518	2,618	5,571	1,162	845	225	78	96	3565

MANUFACTURES—SUMMARY STATISTICS

Table 1A—CONSUMPTION OF STEEL MILL

Code	Consuming industry	Steel mill shapes and forms							
		Total steel		Carbon steel					
				Bars and bar shapes (331211 and 331243)		Steel and strip (331212)		Structural shapes (331215)	
		Short tons	Delivered cost (\$1,000)	Short tons	Delivered cost (\$1,000)	Short tons	Delivered cost (\$1,000)	Short tons	Delivered cost (\$1,000)
35	Machinery, except electrical--Continued								
3566	Power-transmission equipment.....	196,610	43,824	46,503	8,786	70,224	12,416	2,095	338
3567	Industrial furnaces and ovens.....	71,243	14,693	7,133	944	17,231	2,270	18,207	2,358
3568	Mechanical stokers.....	2,419	424	(6)	(6)	(6)	(6)	(6)	(6)
3569	General industrial machinery, n.e.c.....	190,330	41,138	14,495	2,962	18,160	2,986	6,945	1,046
3571	Computing and related machines.....	42,400	9,580	12,966	2,555	25,293	5,061	(6)	(6)
3572	Typewriters.....	23,989	5,261	4,113	1,004	18,426	3,557	...	...
3576	Scales and balances.....	23,339	4,041	1,896	353	14,139	1,962	(6)	(6)
3579	Office and store machines, n.e.c.....	32,582	8,951	5,446	1,315	20,109	3,604	(6)	(6)
3581	Domestic laundry equipment.....	264,680	37,247	23,596	4,076	237,806	30,938	(6)	(6)
3582	Laundry and dry-cleaning machinery.....	22,583	6,190	3,341	734	8,250	1,398	1,683	290
3583	Sewing machines.....	8,486	2,166	3,989	892	3,686	732	...	...
3584	Vacuum cleaners.....	19,255	4,003	1,217	274	15,766	2,684	(6)	(6)
3585	Refrigeration machinery.....	804,531	126,480	47,740	7,003	657,658	*91,434	6,508	909
3589	Service and household machines, n.e.c.....	54,910	10,314	5,096	1,008	34,276	4,775	2,143	351
3591	Valves and fittings (except plumbing).....	227,881	45,500	58,206	9,985	18,783	2,031	15,079	2,976
3593	Ball and roller bearings.....	273,876	89,332	18,728	3,333	42,494	6,747	(6)	(6)
36	Electrical machinery.....	2,418,131	432,972	317,881	47,078	1,210,496	190,603	37,176	5,271
3611	Wiring devices and supplies.....	451,722	59,023	81,534	9,287	184,681	23,018	1,210	166
3613	Electrical measuring instruments.....	15,465	4,365	666	171	8,341	1,589	(6)	(6)
3614	Motors and generators.....	570,567	105,429	63,644	9,936	336,414	58,591	4,855	633
3615	Transformers.....	255,431	60,648	8,696	1,221	93,974	21,340	12,771	1,661
3616	Electrical control apparatus.....	201,980	33,014	21,895	3,496	134,511	19,463	12,705	1,891
3617	Electrical welding apparatus.....	200,227	34,850	5,464	1,153	11,478	1,930	2,699	555
3621	Electrical appliances.....	277,628	52,192	36,939	5,929	207,043	29,971	(7)	(7)
3641	Engine electrical equipment.....	238,282	33,308	*73,160	10,779	113,510	14,517	...	...
3661	Radios and related products.....	142,767	36,496	13,289	2,897	79,744	13,130	(6)	(6)
3664	Telephone and telegraph equipment.....	58,198	12,443	12,178	2,137	38,017	6,515	2,936	365
3669	Communication equipment, n.e.c.....	5,864	1,204	416	72	2,783	539	(6)	(6)
37	Transportation equipment.....	11,675,914	1,623,780	1,384,328	185,241	7,706,854	913,234	369,931	45,692
3713	Truck and bus bodies.....	191,902	24,588	32,300	3,520	128,571	15,990	11,589	1,538
3715	Truck trailers.....	159,028	23,006	10,580	1,466	80,508	11,066	15,963	2,051
3716	Automobile trailers.....	34,144	6,563	3,511	531	17,085	2,805	8,286	1,379
3717	Motor vehicles and parts.....	9,445,074	1,215,560	1,170,587	153,579	7,042,794	828,672	35,362	6,572
3721	Aircraft.....	63,771	35,523	10,931	3,232	6,612	2,127	4,866	927
3722	Aircraft engines.....	139,190	74,681	14,389	2,413	60,190	8,480	963	158
3723	Aircraft propellers.....	9,531	4,398	(6)	(6)	(6)	(6)	(6)	(6)
3729	Aircraft equipment, n.e.c.....	200,625	57,951	17,772	4,186	101,383	13,593	3,070	531
3731	Ship building and repairing.....	490,754	65,868	26,534	4,487	23,563	3,017	120,666	13,926
3732	Boat building and repairing.....	24,243	3,355	3,097	435	2,684	359	6,475	862
3741	Locomotives and parts.....	203,401	23,358	21,351	2,559	27,380	2,847	34,037	3,607
3742	Railroad and street cars.....	644,071	77,709	56,955	6,892	175,909	18,678	128,654	14,141
3751	Motorcycles and bicycles.....	70,180	11,220	16,321	1,941	40,175	5,600	...	...
38	Instruments and related products.....	70,271	21,289	12,046	3,254	32,880	6,230	2,576	622
3811	Scientific instruments.....	7,682	3,010	589	172	1,883	381	1,174	145
3821	Mechanical measuring instruments.....	62,589	18,279	11,457	3,082	30,997	5,849	1,402	477
3914	Silverware and plated ware.....	414,246	7,549	(6)	(6)	4,080	844	(NA)	(NA)

See footnotes at end of table 1D.

SELECTED MATERIALS CONSUMED

210-37

SHAPES AND FORMS, BY INDUSTRY: 1954--Continued

Steel mill shapes and forms--Continued												Code
Carbon steel--Continued						Alloy steel (except stainless)				Stainless steel, all mill shapes and forms (331231, 331247, 331248, and 331249)		
Plates (331213)		Wire and wire products (331217)		All other mill shapes and forms ¹ (331218, 331219, 331241, and 331242)		Bars and bar shapes (331221 and 331246)		All other mill shapes and forms (331225, 331244, and 331245)				
Short tons	Delivered cost (\$1,000)	Short tons	Delivered cost (\$1,000)	Short tons	Delivered cost (\$1,000)	Short tons	Delivered cost (\$1,000)	Short tons	Delivered cost (\$1,000)	Short tons	Delivered cost (\$1,000)	
16,535	2,068	765	262	11,320	3,101	26,623	7,290	21,650	8,522	895	1,041	3566
21,266	2,381	(6)	(6)	62,821	6,442	(5)	(5)	5,703	5,817	3,882	5,481	3567
(6)	(6)	...	...	62,222	6,336	(5)	(5)	5,197	5,88	(5)	(5)	3568
43,354	6,009	2,152	720	91,993	17,247	1,768	871	8,174	4,503	3,289	4,794	3569
(6)	(6)	(6)	(6)	61,783	6,507	485	270	1,504	746	369	441	3571
...	...	(6)	(6)	61,210	6,564	(5)	(5)	5,240	5,136	(NA)	(NA)	3572
(6)	(6)	(6)	(6)	66,742	61,228	(5)	(5)	5,308	5,231	254	267	3576
(6)	(6)	6,456	3,664	62,32	6,59	(5)	(5)	5,117	5,61	222	248	3579
(6)	(6)	(6)	(6)	6835	6,642	(5)	(5)	51,395	5,613	1,048	978	3581
4,001	598	300	114	1,564	407	1,206	275	228	63	2,010	2,311	3582
(6)	(6)	(6)	(6)	6388	6,127	79	76	...	...	344	339	3583
...	...	308	79	61,239	6,407	172	152	94	29	459	378	3584
33,716	4,938	6,824	2,746	30,717	8,360	1,436	643	11,268	1,730	8,664	8,717	3585
5,272	788	3,265	604	2,363	570	233	70	539	202	1,723	1,946	3589
34,812	3,675	840	202	74,474	12,447	7,128	2,081	9,710	2,997	8,849	9,106	3591
308	59	8,061	2,585	64,139	61,049	105,157	29,006	94,448	45,758	541	795	3593
183,914	19,803	184,692	29,403	251,144	45,686	35,784	9,235	174,180	58,480	22,864	27,413	36
1,249	168	6,574	1,400	173,605	23,423	(5)	(5)	5,249	5,808	620	753	3611
1,121	181	(6)	(6)	6,795	6,183	(5)	(5)	5,317	5,1367	725	874	3613
67,790	7,000	2,714	858	17,811	5,082	33,206	7,761	42,322	13,586	1,811	1,982	3614
44,110	4,681	(6)	(6)	610,630	63,203	(5)	(5)	584,888	528,138	362	404	3615
18,873	1,946	(6)	(6)	65,038	61,092	(5)	(5)	5,6860	5,2478	2,098	2,648	3616
6,391	843	157,191	20,072	6,301	990	(5)	(5)	5,015	5,1380	5,688	7,927	3617
72,665	7361	6,611	2,838	14,882	4,629	(5)	(5)	5,2419	5,968	7,069	7,496	3621
39,654	4,345	3,983	745	906	226	(5)	(5)	5,5841	5,1546	1,228	1,150	3641
(6)	(6)	6,495	3,176	619,758	66,298	2,324	1,197	19,046	7,056	2,111	2,742	3661
315	43	1,124	314	813	381	254	277	1,477	1,059	1,084	1,352	3664
1,746	235	(6)	(6)	605	6179	(5)	(5)	5,246	5,94	68	85	3669
884,137	99,129	70,903	16,971	281,606	50,049	706,017	134,862	177,537	63,169	94,601	115,433	37
13,425	1,794	630	232	4,054	834	532	175	491	121	310	384	3713
25,940	3,146	(6)	(6)	63,099	6,687	18,457	3,087	4,276	1,235	205	268	3715
(6)	(6)	(6)	(6)	61,465	6,334	(5)	(5)	5,3,797	5,1,514	(5)	(5)	3716
213,322	26,515	57,974	12,995	174,220	29,156	631,597	107,318	83,136	17,763	36,082	32,990	3717
7,290	1,290	2,645	1,379	4,321	2,029	11,312	5,265	5,352	3,497	10,442	15,777	3721
6,029	682	998	386	1,750	587	16,572	7,479	6,643	5,427	31,656	49,069	3722
(6)	(6)	(6)	(6)	63,628	6,564	4,373	2,926	1,409	760	121	148	3723
4,735	826	2,894	501	6,000	2,094	14,002	6,812	44,750	21,917	6,019	7,491	3729
288,802	31,337	1,828	610	14,757	3,026	874	299	12,515	7,741	1,215	1,425	3731
11,392	1,398	(6)	(6)	6341	6,109	(5)	(5)	5,254	5,192	(5)	(5)	3732
93,777	9,660	(6)	(6)	619,185	62,155	1,701	434	5,681	1,753	289	343	3741
218,316	22,349	1,191	247	45,397	7,267	6,597	1,067	4,631	679	6,421	6,389	3742
1,109	132	2,743	621	3,389	1,207	(5)	(5)	54,602	5,570	1,841	1,149	3751
3,629	1,063	1,868	468	8,683	1,871	1,624	918	2,877	1,677	4,088	5,186	38
(6)	(6)	(6)	(6)	61,491	6,335	380	192	1,247	577	918	1,208	3811
3,629	1,063	1,868	468	7,192	1,536	1,244	726	1,630	1,100	3,170	3,978	3821
(NA)	(NA)	(6)	(6)	61,536	6,386	(NA)	(5)	(NA)	5,252	7,498	6,067	3914

Table 1B.—CONSUMPTION OF CASTINGS, BY INDUSTRY: 1954

Code	Consuming industry	Castings - rough and semifinished					
		Iron (gray and malleable) (332011)			Steel (332311)		
		Received from other establishments		Produced and consumed in the same establishment (short tons)	Received from other establishments		Produced and consumed in the same establishment (short tons)
		Quantity (short tons)	Delivered cost (\$1,000)		Quantity (short tons)	Delivered cost (\$1,000)	
	Metal fabricating industries, total.....	4,471,790	1,097,934		802,047	841,954	
19	Ordinance and accessories.....	18,399	6,019		86,223	61,647	
34	Fabricated metal products.....	173,240	53,538	(NA)	34,677	16,299	
3421	Cutlery.....	397	204		33	28	
3422	Edge tools.....	1,488	587		(NA)	(NA)	
3423	Hand tools, n.e.c.....	13,006	5,329		1,763	753	
3429	Hardware, n.e.c.....	40,868	12,155		2,929	1,324	
3431	Plumbing fixtures and fittings.....	1,844	483	233,929	(NA)	(NA)	
3439	Heating and cooking equipment, n.e.c.....	71,591	21,826	133,174	1,907	1,620	
3441	Structural and ornamental work.....	13,012	3,602		8,739	3,781	
3442	Metal doors, sash, and trim.....	2,841	644		1,820	700	(NA)
3443	Boiler shop products.....	7,231	2,635		3,819	2,653	
3444	Sheet-metal work.....	3,194	1,057		2,180	723	
3461	Vitreous-enamelled products.....	...	...		(NA)	(NA)	
3463	Metal stamping.....	11,458	3,045		2,931	1,078	
3471	Lighting fixtures.....	6,310	1,971	(NA)	1,750	855	
3489	Wirework, n.e.c.....	(NA)	(NA)		3,363	1,229	
3494	Bolts, nuts, washers, and rivets.....	(NA)	(NA)		2,913	1,220	
3495	Screw machine products.....	(NA)	(NA)		530	335	
35	Machinery, except electrical.....	1,787,141	484,759		417,545	210,240	
3511	Steam engines and turbines.....	11,109	5,564		16,357	12,556	
3519	Internal combustion engines.....	149,756	48,015		1,886	1,312	
3521	Tractors.....	332,450	65,210	255,522	43,770	15,987	
3522	Farm machinery (except tractors).....	139,559	33,590	94,576	9,185	4,937	791
3531	Construction and mining machinery.....	89,528	23,794	26,573	130,791	56,900	18,516
3532	Oil-field machinery and tools.....	33,765	7,641	8,184	22,716	12,779	3,792
3541	Machine tools.....	166,324	52,401		6,879	4,015	
3542	Metalworking machinery.....	69,056	19,213	(NA)	50,071	18,584	(NA)
3544	Special dies and tools.....	56,352	12,550		11,566	5,199	
3545	Metalworking machinery attachments.....	7,459	2,697		927	773	
3551	Food-products machinery.....	20,584	7,285	7,391	3,574	2,134	155
3552	Textile machinery.....	51,415	15,870	(NA)	(NA)	(NA)	(NA)
3553	Woodworking machinery.....	14,934	4,443	8,293	2,385	911	46
3554	Paper-industries machinery.....	20,265	6,407	22,495	1,924	1,166	1,106
3555	Printing-trades machinery.....	28,227	10,142	(NA)	(NA)	(NA)	(NA)
3559	Special-industry machinery, n.e.c.....	34,031	11,476	35,490	15,821	6,959	2,064
3561	Pumps and compressors.....	129,685	43,429	79,781	13,578	16,241	3,571
3562	Elevators and escalators.....	7,227	2,083	6,126	2,058	925	(NA)
3563	Conveyors.....	25,461	7,947	6,587	8,797	4,619	238
3564	Blowers and fans.....	8,037	2,660	(NA)	1,821	807	(NA)
3565	Industrial trucks and tractors.....	31,842	5,899	3,365	9,064	4,436	102
3566	Power-transmission equipment.....	74,849	19,585	35,309	14,901	6,995	4,619
3567	Industrial furnaces and ovens.....	(NA)	(NA)		2,226	1,216	
3568	Mechanical stockers.....	5,488	1,642		192	162	
3569	General industrial machinery, n.e.c.....	12,080	4,508		2,494	1,800	
3571	Computing and related machines.....				875	566	
3572	Typewriters.....				(D)	(D)	
3576	Scales and balances.....	(NA)	(NA)		577	313	
3579	Office and store machines, n.e.c.....				246	127	
3581	Domestic laundry equipment.....	28,892	7,515		2,603	1,836	
3582	Laundry and dry-cleaning machinery.....	10,276	2,962	(NA)	216	161	(NA)
3583	Sewing machines.....	3,669	2,314		(NA)	(NA)	
3584	Vacuum cleaners.....	412	86		(NA)	(NA)	
3585	Refrigeration machinery.....	112,519	24,990		1,372	889	
3586	Measuring and dispensing pumps.....	12,057	3,796		(NA)	(NA)	
3589	Service and household machines, n.e.c.....	4,868	2,321		508	562	
3591	Valves and fittings, except plumbing.....	88,330	24,654	235,715	34,387	22,132	13,735
3593	Ball and roller bearings.....	6,635	2,070	(NA)	3,778	2,241	(NA)
36	Electrical machinery.....	127,436	39,066	(NA)	22,224	13,551	
3611	Wiring devices and supplies.....	13,994	6,510	4,454	1,270	635	
3613	Electrical measuring instruments.....	(NA)	(NA)	(NA)	121	113	
3614	Motors and generators.....	100,937	30,319	8,985	6,130	4,164	(NA)
3615	Transformers.....	(NA)	(NA)	(NA)	2,298	1,192	
3616	Electrical control apparatus.....	(NA)	(NA)	(NA)	5,044	2,928	
3617	Electrical welding apparatus.....	(NA)	(NA)	(NA)	1,013	466	

See footnotes at end of table 1B.

Table 1B.--CONSUMPTION OF CASTINGS, BY INDUSTRY: 1954--Continued

Code	Consuming industry	Castings - rough and semifinished--Continued					
		Iron (gray and malleable)--Continued (332011)			Steel--Continued (332311)		
		Received from other establishments		Produced and consumed in the same establishment (short tons)	Received from other establishments		Produced and consumed in the same establishment (short tons)
		Quantity (short tons)	Delivered cost (\$1,000)		Quantity (short tons)	Delivered cost (\$1,000)	
36	Electrical machinery--Continued						
3619	Electrical industrial apparatus, n.e.c.....	(NA)	(NA)		(NA)	(NA)	
3621	Electrical appliances.....	(NA)	(NA)		(D)	(D)	
3641	Engine electrical equipment.....	12,505	2,237		709	452	
3661	Radios and related products.....				3,914	1,967	
3664	Telephone and telegraph equipment.....				1,416	1,512	
3669	Communication equipment, n.e.c.....	(NA)	(NA)	(NA)	309	122	(NA)
37	Transportation equipment.....	2,365,574	514,552		233,370	109,086	
3713	Truck and bus bodies.....	2,424	735		1,649	824	
3715	Truck trailers.....	2,088	746		5,319	2,891	
3716	Automobile trailers.....	(NA)	(NA)		2,437	889	
3717	Motor vehicles and parts.....	2,320,498	499,418	621,948	63,944	24,786	1,900
3721	Aircraft.....				1,264	1,626	
3722	Aircraft engines.....				16,459	22,464	
3723	Aircraft propellers.....	(NA)	(NA)	(NA)	338	200	(NA)
3729	Aircraft equipment, n.e.c.....				5,603	5,485	
3731	Ship building and repairing.....				4,233	2,320	
3732	Boat building and repairing.....				(NA)	(NA)	
3741	Locomotive and parts.....	11,334	5,497	3,408	22,221	11,398	8,500
3742	Railroad and street cars.....	29,230	8,156		104,471	35,572	
3751	Motorcycles and bicycles.....				5,432	631	
38	Instruments and related products.....			(NA)	5,102	2,955	(NA)
3811	Scientific instruments.....	(NA)	(NA)	(NA)	380	373	
3821	Mechanical measuring instruments.....				4,722	2,582	
3914	Silverware and plated ware.....				(NA)	(NA)	
Castings - rough and semifinished--Continued							
		Aluminum and aluminum-base alloy (336111)			Copper and copper-base alloy (336121)		
		Received from other establishments		Produced and consumed in the same establishment (1,000 pounds)	Received from other establishments		Produced and consumed in the same establishment (1,000 pounds)
		Quantity (1,000 pounds)	Delivered cost (\$1,000)		Quantity (1,000 pounds)	Delivered cost (\$1,000)	
	Metal fabricating industries, total.....	454,505	308,844		254,506	151,745	
19	Ordinance and accessories.....	8,429	7,715		12,476	6,505	
34	Fabricated metal products.....	442,697	22,643		449,323	22,493	(NA)
3421	Cutlery.....	162	177		(NA)	(NA)	
3422	Edge tools.....	(NA)	(NA)		(NA)	(NA)	
3423	Hand tools, n.e.c.....	2,558	1,564		511	313	
3429	Hardware, n.e.c.....	3,908	2,158		3,377	2,232	
3431	Plumbing fixtures and fittings.....	741	515		36,023	14,466	63,307
3439	Heating and cooking equipment, n.e.c.....	3,126	1,731		3,597	2,026	
3441	Structural and ornamental work.....	(NA)	389		388	275	
3442	Metal doors, sash, and trim.....	9,997	4,793		146	108	
3443	Boiler shop products.....	149	184		(NA)	534	
3444	Sheet-metal work.....	4,596	2,103	(NA)	382	233	
3461	Vitreous-enameled products.....	(NA)	(NA)		...	...
3463	Metal stamping.....	8,517	3,928		654	446	
3471	Lighting fixtures.....	5,569	3,332		2,282	1,318	
3489	Wirework, n.e.c.....	1,876	1,243		(NA)	(NA)	(NA)
3494	Bolts, nuts, washers, and rivets.....	438	242		472	259	
3495	Screw machine products.....	412	284		541	283	
35	Machinery, except electrical.....	4133,522	97,941		120,348	77,590	
3511	Steam engines and turbines.....	(NA)	(NA)		1,713	1,522	
3519	Internal combustion engines.....	26,990	21,869		2,189	1,577	
3521	Tractors.....	5,898	4,159		1,161	871	
3522	Farm machinery (except tractors).....	8,991	4,614		3,131	1,756	196
3531	Construction and mining machinery.....	(NA)	1,577		6,190	3,540	1,393
3532	Oil-field machinery and tools.....	(NA)	(NA)		1,860	1,235	(NA)

See footnotes at end of table 1D.

MANUFACTURES--SUMMARY STATISTICS

Table 1B.--CONSUMPTION OF CASTINGS, BY INDUSTRY: 1954--Continued

Code	Consuming industry	Castings - rough and semifinished--Continued				
		Aluminum and aluminum-base alloy--Continued (336111)		Copper and copper-base alloy--Continued (336121)		
		Received from other establishments		Received from other establishments		Produced and consumed in the same establishment (1,000 pounds)
		Quantity (1,000 pounds)	Delivered cost (\$1,000)	Produced and consumed in the same establishment (1,000 pounds)	Quantity (1,000 pounds)	Delivered cost (\$1,000)
35	Machinery, except electrical--Continued					
3541	Machine tools.....	1,912	1,707	(NA)	3,832	2,747
3542	Metalworking machinery.....	6,703	5,621		4,248	3,185
3544	Special dies and tools.....	1,844	1,403		1,159	1,061
3545	Metalworking machinery attachments.....	798	821		321	314
3551	Food-products machinery.....	2,843	2,402	527	3,321	2,726
3552	Textile machinery.....	1,569	1,139	(NA)	(NA)	(NA)
3553	Woodworking machinery.....	3,807	1,767		398	242
3554	Paper-industries machinery.....	(NA)	(NA)		1,823	1,244
3555	Printing-trades machinery.....	1,898	1,483		763	594
3559	Special-industry machinery, n.e.c.....	2,588	1,779	652	3,968	2,664
3561	Pumps and compressors.....	4,022	4,402		18,429	13,057
3562	Elevators and escalators.....	(NA)	(NA)		670	481
3563	Conveyors.....	(NA)	(NA)		1,618	1,012
3564	Blowers and fans.....	1,383	1,103	(NA)	450	283
3565	Industrial trucks and tractors.....	(NA)	(NA)		359	240
3566	Power-transmission equipment.....	2,060	1,671		9,539	5,757
3567	Industrial furnaces and ovens.....	(NA)	(NA)		(NA)	(NA)
3568	Mechanical stokers.....	(NA)	(NA)	(NA)	...	...
3569	General industrial machinery, n.e.c.....	817	864		2,963	2,051
3571	Computing and related machines.....	2,668	2,204		(NA)	(NA)
3572	Typewriters.....	4,086	2,609			
3576	Scales and balances.....	1,263	850			
3579	Office and store machines, n.e.c.....	1,293	940			
3581	Domestic laundry equipment.....	23,587	12,752	(NA)	178	116
3582	Laundry and dry-cleaning machinery.....	605	415		918	571
3583	Sewing machines.....	2,232	2,033		...	...
3584	Vacuum cleaners.....	7,471	5,676		(NA)	(NA)
3585	Refrigeration machinery.....	6,756	6,578	(NA)	2,008	1,638
3586	Measuring and dispensing pumps.....	1,378	1,057		1,724	847
3589	Service and household machines, n.e.c.....	2,675	2,077		2,671	1,747
3591	Valves and fittings, except plumbing.....	2,916	2,240	13,016	40,610	22,858
3593	Ball and roller bearings.....	321	129	(NA)	2,134	1,654
36	Electrical machinery.....	63,311	38,831	(NA)	28,789	19,076
3611	Wiring devices and supplies.....	3,359	2,315	6,876	5,294	3,764
3613	Electrical measuring instruments.....	2,328	2,097	(NA)	308	343
3614	Motors and generators.....	18,093	9,377	3,204	2,596	1,763
3615	Transformers.....	(NA)	(NA)	(NA)	805	595
3616	Electrical control apparatus.....	2,994	2,716		14,750	8,209
3617	Electrical welding apparatus.....	(NA)	(NA)		2,177	2,049
3619	Electrical industrial apparatus, n.e.c.....	(NA)	(NA)		211	133
3621	Electrical appliances.....	15,757	10,176	(NA)	115	92
3641	Engine electrical equipment.....	1,827	1,408		159	144
3661	Radios and related products.....	14,930	8,267		2,109	1,740
3664	Telephone and telegraph equipment.....	2,111	1,676		218	199
3669	Communication equipment, n.e.c.....	1,912	799	(NA)	47	45
37	Transportation equipment.....	193,229	132,194		23,096	15,402
3713	Truck and bus bodies.....	382	235	17,414	134	109
3715	Truck trailers.....	1,073	838		(NA)	(NA)
3716	Automobile trailers.....	(NA)	(NA)		(NA)	(NA)
3717	Motor vehicles and parts.....	145,925	80,333		8,118	4,759
3721	Aircraft.....	13,197	17,064	(NA)	381	475
3722	Aircraft engines.....	15,418	15,109		2,398	1,602
3723	Aircraft propellers.....	522	916		396	846
3729	Aircraft equipment, n.e.c.....	14,752	16,025		1,789	1,437
3731	Ship building and repairing.....	(NA)	(NA)	(NA)	2,852	1,198
3732	Boat building and repairing.....	(NA)	(NA)		1,826	1,795
3741	Locomotives and parts.....	1,213	983		1,720	1,232
3742	Railroad and street cars.....	747	691		3,482	1,949
3751	Motorcycles and bicycles.....	(NA)	(NA)	(NA)	(NA)	(NA)
38	Instruments and related products.....	13,317	9,520		19,356	10,215
3811	Scientific instruments.....	1,505	1,717		302	376
3821	Mechanical measuring instruments.....	11,812	7,803		19,054	9,839
3914	Silverware and plated ware.....	(NA)	(NA)		1,118	464

See footnotes at end of table 1D.

SELECTED MATERIALS CONSUMED

210-41

Table 1C.--CONSUMPTION OF NONFERROUS MILL SHAPES AND FORMS, BY INDUSTRY: 1954

Code	Consuming industry	Nonferrous mill shapes and forms							
		Aluminum and aluminum-base alloy, all mill shapes and forms (335211, 335218, and 335255)		Copper and copper-base alloy					
				Bare wire (335111)		Insulated wire and cable (363111)		All other mill shapes and forms (335119)	
		Quantity (1,000 pounds)	Delivered cost (\$1,000)	Quantity (1,000 pounds)	Delivered cost (\$1,000)	Quantity (1,000 pounds metal content)	Delivered cost (\$1,000)	Quantity (1,000 pounds)	Delivered cost (\$1,000)
	Metal fabricating industries, total ³	⁹ 1,515,451	⁹ 730,936	⁹ 518,900	⁹ 231,361	367,860	229,495	¹⁰ 1,380,708	¹⁰ 655,934
19	Ordnance and accessories.....	24,860	15,333	(¹¹)	(¹¹)	(¹¹)	(¹¹)	¹¹ 157,756	¹¹ 74,622
24	Lumber and wood products.....	6,588	3,976						
2431	Millwork plants.....	6,298	3,810						
2433	Prefabricated wood products.....	290	166						
25	Furniture and fixtures.....	⁴ 65,859	34,380						
2511	Wood furniture, not upholstered.....	1,714	744	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
2514	Metal household furniture.....	17,836	10,375						
2522	Metal office furniture.....	3,900	1,957						
2531	Public-building furniture.....	1,412	1,104						
2532	Professional furniture.....	587	465						
2541	Partitions and fixtures.....	3,166	1,625						
2561	Window and door screens.....	21,961	10,139						
2563	Venetian blinds.....	(NA)	7,851						
2591	Restaurant furniture.....	243	120						
34	Fabricated metal products.....	788,169	309,605	62,495	30,383	10,098	9,207	320,716	148,154
3411	Tin cans and other tinware.....	1,604	995	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
3421	Cutlery.....	727	349	(¹¹)	(¹¹)	(¹¹)	(¹¹)	¹¹ 3,730	¹¹ 1,813
3422	Edge tools.....	(NA)	(NA)	(NA)	(NA)	(¹¹)	(¹¹)	(NA)	(NA)
3423	Hand tools, n.e.c.....	2,143	999	(¹¹)	(¹¹)	(¹¹)	(¹¹)	¹¹ 1,481	¹¹ 789
3429	Hardware, n.e.c.....	14,143	6,830	1,614	765	100	99	51,192	23,603
3431	Plumbing fixtures and fittings.....	9,059	2,826	(¹¹)	(¹¹)	(¹¹)	(¹¹)	¹¹ 72,759	¹¹ 31,687
3439	Heating and cooking equipment, n.e.c.....	14,637	5,970	494	304	341	267	14,081	8,114
3441	Structural and ornamental work.....	24,544	11,285	766	356	(¹¹)	(¹¹)	¹¹ 1,949	¹¹ 1,272
3442	Metal doors, sash, and trim.....	*204,852	93,386	228	114	(¹¹)	(¹¹)	¹¹ 1,266	¹¹ 680
3443	Boiler shop products.....	3,488	1,747	(¹¹)	(¹¹)	(¹¹)	(¹¹)	¹¹ 3,792	¹¹ 2,279
3444	Sheet-metal work.....	123,193	39,872	1,187	612	(¹¹)	(¹¹)	¹¹ 6,546	¹¹ 3,208
3461	Vitreous-enamelled products.....	3,576	1,284	(¹¹)	(¹¹)	(¹¹)	(¹¹)	¹¹ 393	¹¹ 210
3463	Metal stampings.....	159,110	63,811	5,349	2,586	527	257	58,291	28,212
3471	Lighting fixtures.....	8,563	4,657	226	8,841	8,425	8,425	15,253	7,951
3481	Nails and spikes.....	(NA)	(NA)	(¹¹)	(¹¹)	...	...	¹¹ 1,564	¹¹ 757
3489	Wirework, n.e.c.....	22,592	11,592	12,843	6,683	232	117	7,040	3,784
3491	Metal barrels, drums, and pails.....	2,535	999	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
3494	Bolts, nuts, washers, and rivets.....	11,575	5,760	26,082	12,531	57	42	27,840	12,809
3495	Screw machine products.....	12,871	7,084	13,486	6,206	(¹¹)	(¹¹)	¹¹ 53,539	¹¹ 20,986
3496	Collapsible tubes.....	7,654	3,560	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
3497	Metal foil.....	¹² 161,303	¹² 46,599	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
35	Machinery, except electrical.....	⁴ 136,918	64,617	13,402	7,155	18,760	14,006	⁴ 288,844	149,655
3511	Steam engines and turbines.....	(NA)	(NA)	(¹¹)	(¹¹)	(¹¹)	(¹¹)	¹¹ 4,568	¹¹ 2,577
3519	Internal combustion engines.....	(NA)	(NA)	...	...	1,079	984	10,547	5,273
3521	Tractors.....	(NA)	(NA)	...	...	285	267	2,781	1,367
3522	Farm machinery (except tractors).....	4,656	2,479	(NA)	(¹¹)	(NA)	(¹¹)	(NA)	¹¹ 2,641
3531	Construction and mining machinery.....	(NA)	830	(NA)	(¹¹)	(NA)	(¹¹)	(NA)	¹¹ 2,181
3532	Oil-field machinery and tools.....	(NA)	(NA)	(NA)	(¹¹)	(NA)	(¹¹)	(NA)	¹¹ 1,265
3541	Machine tools.....	1,186	601	(¹¹)	(¹¹)	(¹¹)	(¹¹)	¹¹ 2,668	¹¹ 1,605
3542	Metalworking machinery.....	1,455	652	(¹¹)	(¹¹)	(¹¹)	(¹¹)	¹¹ 7,879	¹¹ 4,728
3544	Special dies and tools.....	2,160	1,211	(¹¹)	(¹¹)	(¹¹)	(¹¹)	¹¹ 3,286	¹¹ 1,756
3545	Metalworking machinery attachments.....	(NA)	(NA)	(¹¹)	(¹¹)	(¹¹)	(¹¹)	¹¹ 932	¹¹ 597
3551	Food-products machinery.....	1,978	883	(¹¹)	(¹¹)	(¹¹)	(¹¹)	¹¹ 2,783	¹¹ 1,479
3552	Textile machinery.....	1,984	1,075	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
3553	Woodworking machinery.....	620	418	(¹¹)	(¹¹)	(¹¹)	(¹¹)	¹¹ 1,599	¹¹ 890
3554	Paper-industries machinery.....	(NA)	(NA)	(¹¹)	(¹¹)	(¹¹)	(¹¹)	¹¹ 1,706	¹¹ 1,042
3555	Printing-trades machinery.....	(NA)	562	(NA)	(¹¹)	(NA)	(¹¹)	(NA)	¹¹ 1,610
3559	Special-industry machinery, n.e.c.....	883	579	(¹¹)	(¹¹)	250	266	¹¹ 4,860	¹¹ 3,422
3561	Pumps and compressors.....	1,145	973	1,025	439	1,796	1,222	9,818	5,333
3562	Elevators and escalators.....	(NA)	(NA)	(¹¹)	(¹¹)	2,048	1,986	¹¹ 1,473	¹¹ 1,115
3563	Conveyors.....	(NA)	(NA)	654	318	1,040	953	821	548
3564	Blowers and fans.....	5,955	2,753	1,217	657	519	341	2,300	1,453

See footnotes at end of table 1D.

MANUFACTURES--SUMMARY STATISTICS

Table 10.--CONSUMPTION OF NONFERROUS MILL SHAPES AND FORMS, BY INDUSTRY: 1954--Continued

Code	Consuming industry	Nonferrous mill shapes and forms--Continued							
		Aluminum and aluminum-base alloy, all mill shapes and forms (335211, 335218, and 335255)--Continued		Copper and copper-base alloy--Continued					
				Bare wire (335111)		Insulated wire and cable (363111)		All other mill shapes and forms (335119)	
		Quantity (1,000 pounds)	Delivered cost (\$1,000)	Quantity (1,000 pounds)	Delivered cost (\$1,000)	Quantity (1,000 pounds metal content)	Delivered cost (\$1,000)	Quantity (1,000 pounds)	Delivered cost (\$1,000)
35	Machinery, except electrical--Continued								
3565	Industrial trucks and tractors.....	...	...	(11)	(11)	552	349	11,460	11,292
3566	Power-transmission equipment.....	410	297	(11)	(11)	(11)	(11)	11,847	11,359
3569	General industrial machinery, n.e.c.....	2,648	1,460	2,070	1,287	1,866	1,486	19,813	13,438
3571	Computing and related machines.....	1,658	857	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
3572	Typewriters.....	229	129	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
3576	Scales and balances.....	508	262	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
3579	Office and store machines, n.e.c.....	817	399	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
3581	Domestic laundry equipment.....	3,420	1,428	(11)	(11)	950	693	11,488	11,720
3582	Laundry and dry-cleaning machinery.....	1,116	635	(11)	(11)	(11)	(11)	11,922	11,489
3583	Sewing machines.....	(NA)	(NA)	(11)	(11)	(11)	(11)	11,96	11,241
3584	Vacuum cleaners.....	2,260	1,058	509	260	1,208	1,237	810	565
3585	Refrigeration machinery.....	85,108	38,938	6,621	3,626	6,094	3,535	89,396	45,476
3586	Measuring and dispensing pumps.....	566	293	(11)	(11)	(11)	(11)	112,601	111,170
3589	Service and household machines, n.e.c.....	1,444	646	(11)	(11)	629	378	112,969	111,667
3591	Valves and fittings, except plumbing.....	12,412	5,199	1,306	568	444	309	112,565	39,738
3593	Ball and roller bearings.....	(NA)	(NA)	(11)	(11)	(11)	(11)	111,186	11,618
36	Electrical machinery.....	91,306	45,397	371,068	160,539	289,976	169,051	273,924	132,923
3611	Wiring devices and supplies.....	9,214	4,844	7,500	3,489	8,510	6,271	37,859	18,696
3613	Electrical measuring instruments.....	4,792	2,189	(13)	(13)	135,834	13,413	5,864	3,150
3614	Motors and generators.....	16,631	5,754	25,357	12,919	72,591	40,824	76,405	31,430
3615	Transformers.....	(NA)	(NA)	43,112	20,789	59,413	35,593	10,676	5,614
3616	Electrical control apparatus.....	5,458	2,823	5,095	3,052	6,277	4,479	52,783	26,612
3617	Electrical welding apparatus.....	(NA)	(NA)	2,518	1,679	3,781	2,398	3,484	2,150
3619	Electrical industrial apparatus, n.e.c.....	(NA)	(NA)	2,715	1,264	4,792	3,531	1,765	1,100
3621	Electrical appliances.....	13,524	6,012	3,574	1,958	5,040	4,346	14,604	7,191
3631	Insulated wire and cable.....	3,906	1,365	249,720	98,376	(NA)	(NA)	9,332	5,577
3641	Engine electrical equipment.....	2,337	1,315	7,749	3,587	75,280	34,493	16,675	7,981
3661	Radios and related products.....	28,946	17,881	19,264	10,492	37,827	22,548	25,537	14,646
3664	Telephone and telegraph equipment.....	6,274	2,936	4,278	2,816	9,758	10,085	17,971	8,166
3669	Communication equipment, n.e.c.....	224	278	186	118	873	1,070	969	610
37	Transportation equipment.....	384,934	247,853	20,749	10,507	30,543	28,341	217,019	104,178
3713	Truck and bus bodies.....	7,865	3,837	(11)	(11)	209	142	11,396	11,210
3715	Truck trailers.....	49,525	24,073	(11)	(11)	201	155	111,810	111,011
3716	Automobile trailers.....	20,171	8,805	(11)	(11)	(11)	(11)	11,678	11,414
3717	Motor vehicles and parts.....	36,600	16,764	13,344	6,730	8,990	4,811	179,905	82,538
3721	Aircraft.....	173,206	133,483	1,241	915	5,366	7,672	1,514	1,047
3722	Aircraft engines.....	10,113	6,578	898	441	728	678	1,148	605
3723	Aircraft propellers.....	828	503	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
3729	Aircraft equipment, n.e.c.....	82,725	51,501	708	473	2,281	1,986	10,368	6,472
3731	Ship building and repairing.....	(NA)	(NA)	(11)	(11)	8,611	9,901	11,478	11,116
3732	Boat building and repairing.....	(NA)	(NA)	(11)	(11)	(11)	(11)	111,119	11,929
3741	Locomotives and parts.....	685	411	4,558	1,948	3,246	2,317	11,237	6,403
3742	Railroad and street cars.....	3,216	1,898	(11)	(11)	911	679	11,062	11,433
38	Instruments and related products.....	6,236	3,907	4,155	2,102	1,649	1,435	34,053	17,915
3811	Scientific instruments.....	2,609	1,774	642	305	793	692	1,393	883
3821	Mechanical measuring instruments.....	3,627	2,133	3,513	1,797	856	743	32,660	17,032
39	Miscellaneous manufactures.....	(NA)	(NA)	19,218	9,412	(NA)	(NA)	56,863	26,577
3914	Silverware and plated ware.....	(NA)	(NA)	...	...	(NA)	(NA)	28,167	13,946
3964	Needles, pins, and fasteners.....	(NA)	(NA)	19,218	9,412	(NA)	(NA)	28,696	12,631

See footnotes at end of table 1D.

SELECTED MATERIALS CONSUMED

210-43

Table 1D.—CONSUMPTION OF SPECIFIED PRIMARY METALS AND SCRAP, BY INDUSTRY: 1954

Code	Consuming industry	Refinery shapes ¹⁴						Scrap ¹⁵			
		Copper and copper-base alloy (333111, 333113, and 333115)		Zinc and zinc-base alloy (333311 and 333315)		Aluminum and aluminum-base alloy (333411 and 333421)		Copper and copper-base alloy (941021)		Aluminum and aluminum-base alloy (941031)	
		Quantity (short tons)	De-livered cost (\$1,000)	Quantity (short tons)	De-livered cost (\$1,000)	Quantity (short tons)	De-livered cost (\$1,000)	Quantity (short tons)	De-livered cost (\$1,000)	Quantity (short tons)	De-livered cost (\$1,000)
	Chemical, primary metal and metal fabricating industries, total....	1,210,161	711,412	457,273	113,782	1,310,356	554,759	883,298	379,703	378,091	118,294
2819	Inorganic chemicals, n.e.c.....	(NA)	(NA)	8,773	1,509	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
33	Primary metal industries.....	1,100,816	655,794	367,471	89,993	1,284,925	542,773	842,422	361,192	371,945	115,674
3312	Steel works and rolling mills.....	(NA)	(NA)	(NA)	(NA)	34,491	13,115	(NA)	(NA)	(NA)	(NA)
3321	Gray-iron foundries ¹⁶	5,891	3,549	(NA)	(NA)	4,156	1,911	1,753	767	1,027	430
3322	Malleable-iron foundries ¹⁶	(NA)	(NA)	859	199	429	234	(NA)	(NA)	(NA)	(NA)
3323	Steel foundries ¹⁶	501	322	(NA)	(NA)	1,136	558	(NA)	(NA)	(NA)	(NA)
3331	Primary copper.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	51,871	27,382	...	...
3334	Primary aluminum.....	(NA)	(NA)	(NA)	(NA)	1,276	607	(NA)	(NA)	1,141	436
3341	Secondary nonferrous metals.....	6,725	3,814	114,486	27,422	14,267	5,954	398,069	149,896	232,300	64,146
3351	Copper rolling and drawing.....	989,791	592,960	92,941	22,046	28,969	13,132	309,765	145,904	2,417	939
3352	Aluminum rolling and drawing.....	2,471	1,481	2,778	702	973,163	405,786	1,606	863	123,711	45,539
3359	Rolling and drawing, n.e.c.....	801	956	45,114	10,079	6,887	3,803	(NA)	(NA)	(NA)	(NA)
3361	Nonferrous foundries ¹⁶	94,636	52,712	111,293	29,545	220,151	97,673	79,358	36,380	11,349	4,184
34	Fabricated metal products.....	40,161	19,329	412,552	20,111	13,916	6,844	49,888	4,921	4,037	1,724
3429	Hardware, n.e.c.....	9,929	5,087	41,565	11,250	(NA)	(NA)	(NA)	513	(NA)	(NA)
3431	Plumbing fixtures and fittings.....	30,232	14,242	(NA)	(NA)	(NA)	(NA)	8,858	4,408	(NA)	(NA)
3441	Structural and ornamental work.....	(NA)	(NA)	4,525	1,050	2,138	1,012	(NA)	(NA)	1,411	600
3442	Metal doors, sash, and trim.....	(NA)	(NA)	(NA)	163	7,259	3,508	(NA)	(NA)	2,626	1,124
3443	Boiler shop products.....	(NA)	(NA)	4,478	986	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
3444	Sheet-metal work.....	(NA)	(NA)	4,837	1,133	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
3463	Metal stampings.....	(NA)	(NA)	16,547	5,529	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
3471	Lighting fixtures.....	(NA)	(NA)	(NA)	(NA)	4,519	2,324	(NA)	(NA)	(NA)	(NA)
35	Machinery, except electrical.....	61,025	31,258	(NA)	(NA)	918	398	24,304	12,497	670	276
3554	Paper-industries machinery.....	516	303	(NA)	(NA)	(NA)	(NA)	429	254	(NA)	(NA)
3559	Special-industry machinery, n.e.c....	(NA)	(NA)	(NA)	(NA)	918	398	(NA)	(NA)	670	276
3561	Pumps and compressors.....	6,058	3,393	(NA)	(NA)	(NA)	(NA)	1,774	869	(NA)	(NA)
3566	Power-transmission equipment.....	8,554	3,194	(NA)	(NA)	(NA)	(NA)	7,269	3,200	(NA)	(NA)
3591	Valves & fittings, except plumbing...	45,897	24,368	(NA)	(NA)	(NA)	(NA)	14,832	8,174	(NA)	(NA)
36	Electrical machinery.....	5,356	3,581	8,477	2,169	10,597	4,744	342	160	(NA)	(NA)
3611	Wiring devices and supplies.....	5,356	3,581	8,477	2,169	3,302	1,601	342	160	(NA)	(NA)
3621	Electrical appliances.....	(NA)	(NA)	(NA)	(NA)	3,953	1,816	(NA)	(NA)	(NA)	(NA)
3641	Engine electrical equipment.....	(NA)	(NA)	(NA)	(NA)	3,342	1,327	(NA)	(NA)	(NA)	(NA)
37	Transportation equipment.....	2,803	1,450	(NA)	(NA)	(NA)	(NA)	6,342	933	1,439	620
3713	Truck and bus bodies.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	859	263
3717	Motor vehicles and parts.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	580	357
3731	Ship building and repairing.....	1,406	754	(NA)	(NA)	(NA)	(NA)	2,755	734	(NA)	(NA)
3741	Locomotives and parts.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	3,325	134	(NA)	(NA)
3742	Railroad and street cars.....	1,397	696	(NA)	(NA)	(NA)	(NA)	262	65	(NA)	(NA)

NA Not available. *Revised.

D Withheld to avoid disclosing operations of individual companies.

¹Includes data on the consumption of tin plate, black plate, and terne plate which amounted to 4,467,234 short tons valued at \$731,560 thousand.

²The "primary metal industries" include establishments which produce the metal shapes and forms that are consumed by plants in the fabricating industries. As used in this table, the term includes steel works and rolling mills, wire drawing establishments, independent pipe mills and cold rolling, drawing, and finishing establishments, but excludes forging plants which also are classified in Major Group 33, "Primary Metal Industries". As billets and bars used by the forging plants are included in the steel mill shapes and forms consumed, forgings are excluded from the consumption data to avoid duplication by counting both the forgings and the bars and billets from which the forgings are made. For this reason establishments in Industry 3391, "Iron and Steel Forgings," are classified in this table as metal fabricators rather than producers of primary metals. Also to eliminate duplication, the data shown for the "primary metal industries" are limited to the consumption of mill shapes and forms in the production of fabricated products or in maintenance and repair work and exclude the consumption of these products in the manufacture of other basic shapes and forms. The total consumption of steel mill shapes and forms in the "primary metals industries" differs from the total shown for these metal producing industries by states (Table 2A) because small tonnages of selected shapes and forms have been withheld from the data shown in this table to avoid disclosure of operations of individual companies.

³The "metal fabricating industries" include establishments whose primary activity is the manufacture of products fabricated beyond the metal mill or foundry level. The totals shown for the consumption of shapes and forms by these industries differ from the sum of the detail for the individual industries because they include data for establishments classified in several industries for which complete consumption data are not available. The totals also incorporate slight refinements which are not included in the figures at an industry level. For example the totals for two-digit groups of industries and for all the metal fabricating industries include estimates of the quantity of materials consumed in industries for which the cost of the materials is published but the quantity is not available. In addition the totals for the "metal fabricating industries" represent the actual consumption of each shape and form while the data for the individual industries and two-digit groups include combinations of data for various shapes and forms which have been made to avoid disclosing operations of individual companies.

⁴Includes estimates of the quantity of materials consumed in industries for which the cost is shown but the quantity is not available.

⁵Combined with all other alloy steel mill shapes and forms.

⁶Combined with all other carbon steel mill shapes and forms.

⁷Combined with carbon steel plates.

⁸Includes 2,906 short tons of castings valued at \$1,176 thousand for two industries which are not shown separately to avoid disclosing operations of individual companies.

⁹The totals shown in this table differ from those in the state table (Table 2C) because they include data for establishments classified in Industry 3631, "Insulated Wire and Cable". As both bare wire and insulated wire and cable are classified as mill shapes and forms, the industry totals include duplication to the extent that bare wire is consumed by Industry 3631 establishments in the manufacture of insulated wire and cable which in turn is used in other metal fabricating industries. To avoid counting both the insulated wire and cable and the bare wire from which it is produced, the data for Industry 3631 are excluded from the totals shown by states. In addition to the mill shapes and forms consumed in the metal fabricating industries a total of 151,210 thousand pounds of aluminum and aluminum-base alloy bare wire and 8,728 thousand pounds of copper and copper-base alloy wire was produced and consumed in the manufacture of fabricated products by nonferrous metal mills and wire drawing establishments which are classified in Major Group 33, "Primary Metal Industries."

Footnotes continued on next page.

MANUFACTURES—SUMMARY STATISTICS

Footnotes to Table 1D.—Continued

¹⁰In addition to the materials consumed by the metal fabricating industries a total of 31,794 thousand pounds of copper and copper-base alloy rolled, drawn and extruded mill products, other than wire and cable, was produced and consumed in the manufacture of fabricated products by establishments classified in Major Group 33, "Primary Metal Industries."

¹¹Combined with "all other copper mill shapes and forms."

¹²Establishments classified in Industry 3497, "Metal Foil," consumed 68,610 thousand pounds of aluminum foil valued at \$30,772 thousand which are not included in the materials consumed data shown for shapes and forms.

¹³Combined with insulated wire and cable.

¹⁴The materials consumed data for refinery shapes represent the total consumption of company-owned materials. Materials consumed in toll processing are included in the consumption of the owning establishment.

¹⁵The data shown for scrap represent only the consumption of purchased scrap in selected industries.

¹⁶Data shown for the foundry industries cover only the consumption of materials by commercial foundries which produce castings for sale to other companies or for transfer to other plants of the same company.

SELECTED MATERIALS CONSUMED

210-45

Table 2A.--CONSUMPTION OF CASTINGS, BY DIVISIONS AND STATES: 1954

Division and State	Castings - rough and semifinished ⁵							
	Iron (gray and malleable) (332011)		Steel (332311)		Aluminum and aluminum-base alloy (336111)		Copper and copper-base alloy (336121)	
	Quantity (short tons)	Delivered cost (\$1,000)	Quantity (short tons)	Delivered cost (\$1,000)	Quantity (1,000 pounds)	Delivered cost (\$1,000)	Quantity (1,000 pounds)	Delivered cost (\$1,000)
United States, total.....	4,471,790	1,097,934	802,047	414,954	454,505	308,844	254,506	151,745
New England.....	152,338	51,903	22,374	15,426	30,429	23,437	20,872	14,405
Maine.....	4,430	1,127	971	712	73	49	567	520
New Hampshire.....	4,993	1,982	277	162	222	188	1,042	792
Vermont.....	8,351	3,082	742	571	242	252	320	208
Massachusetts.....	75,252	26,184	10,728	8,189	7,816	7,060	7,635	5,226
Rhode Island.....	9,553	3,208	437	579	563	422	2,669	1,458
Connecticut.....	49,759	16,320	9,219	5,213	21,513	15,466	8,639	6,201
Middle Atlantic.....	572,044	153,135	172,231	80,193	63,512	49,250	69,653	39,646
New York.....	312,915	71,471	49,257	24,544	32,262	26,988	26,235	14,958
New Jersey.....	80,091	25,562	37,443	25,886	9,194	6,186	14,409	8,742
Pennsylvania.....	179,038	56,102	85,531	29,763	22,056	16,076	29,009	15,946
East North Central.....	3,331,330	788,070	439,605	233,715	274,567	175,581	101,076	57,478
Ohio.....	783,851	198,857	129,337	67,430	57,641	36,335	28,761	15,934
Indiana.....	258,951	62,818	61,232	25,131	37,510	21,073	9,968	6,331
Illinois.....	405,951	103,111	98,695	47,447	41,868	28,208	23,570	13,394
Michigan.....	1,692,884	369,074	97,746	67,318	119,125	77,478	19,005	12,758
Wisconsin.....	189,693	54,210	52,595	26,389	18,423	12,487	19,772	9,061
West North Central.....	208,399	46,041	36,612	17,039	32,128	20,834	14,227	8,661
Minnesota.....	20,641	5,770	3,730	1,796	6,230	4,392	4,618	2,431
Iowa.....	134,136	24,384	17,104	8,042	12,682	5,440	3,369	2,057
Missouri.....	39,652	11,629	10,401	4,460	7,960	5,358	5,171	3,434
North Dakota.....	(D)	(D)	...	...	(D)	(D)	(D)	(D)
South Dakota.....	(D)	(D)	...	...	(D)	(D)	(D)	(D)
Nebraska.....	4,268	1,174	2,706	1,352	(D)	(D)	(D)	(D)
Kansas.....	9,473	3,001	2,671	1,389	5,206	5,598	650	368
South Atlantic.....	40,819	12,654	14,618	8,499	8,220	6,533	6,995	4,285
Delaware.....	2,920	695	3,068	2,722	(D)	(D)	282	154
Maryland.....	5,752	2,007	4,637	2,140	3,605	3,302	2,108	1,366
District of Columbia.....	(D)	(D)	(D)	(D)	...	...	...	...
Virginia.....	1,633	526	280	118	1,321	576	1,140	790
West Virginia.....	6,773	1,800	3,618	2,036	203	141	1,684	850
North Carolina.....	8,067	1,943	1,184	616	967	764	316	182
South Carolina.....	8,365	3,136	(D)	(D)	1,225	1,187	237	143
Georgia.....	6,767	2,442	1,114	554	520	367	908	506
Florida.....	(D)	(D)	573	222	(D)	(D)	320	294
East South Central.....	44,696	10,935	24,940	7,799	3,596	2,488	12,669	8,351
Kentucky.....	18,447	4,030	923	516	2,009	1,506	9,780	6,799
Tennessee.....	10,157	2,706	3,539	1,338	737	530	(D)	(D)
Alabama.....	12,642	3,446	20,099	5,822	432	270	2,142	1,005
Mississippi.....	3,450	753	379	123	418	182	(D)	(D)
West South Central.....	56,979	14,102	32,607	16,373	5,825	4,598	6,453	4,086
Arkansas.....	1,634	572	37	21	(D)	(D)	609	395
Louisiana.....	1,090	420	1,477	907	(D)	(D)	110	73
Oklahoma.....	14,000	4,197	6,416	3,709	1,031	713	1,574	981
Texas.....	40,255	8,913	24,677	11,736	3,762	3,501	4,160	2,637
Mountain.....	6,754	1,629	5,688	2,409	1,976	1,381	679	505
Montana.....	(D)	(D)	(D)	(D)	(D)	(D)	...	...
Idaho.....	(D)	(D)	(D)	(D)	(D)	(D)	...	...
Wyoming.....	...	...	...	...	(D)	(D)	(D)	(D)
Colorado.....	5,988	1,377	2,706	847	1,814	1,221	515	404
New Mexico.....	...	...	(D)	(D)	(D)	(D)	...	...
Arizona.....	(D)	(D)	114	248	88	109	(D)	(D)
Utah.....	700	228	2,357	1,191	(D)	(D)	71	46
Nevada.....	...	...	...	...	...	...	...	...
Pacific.....	58,431	19,465	53,372	33,501	34,252	24,742	21,882	14,328
Washington.....	3,436	1,266	6,847	3,748	2,632	2,048	1,088	658
Oregon.....	3,790	995	3,694	1,953	942	598	368	257
California.....	51,205	17,204	42,831	27,800	30,678	22,096	20,426	13,413

See footnotes at end of table 2D.

MANUFACTURES—SUMMARY STATISTICS

Table 2B.—CONSUMPTION OF STEEL MILL SHAPES

Division and State	Total, all establishments (short tons)	Steel mill shapes and forms ¹							
		Total		Metal fabricating establishments ²					
				Carbon steel					
				Bars and bar shapes (331211 and 331243)		Sheet and strip (331212)		Structural shapes (331215)	
		Short tons	Delivered cost (\$1,000)	Short tons	Delivered cost (\$1,000)	Short tons	Delivered cost (\$1,000)	Short tons	Delivered cost (\$1,000)
1 United States, total.....	48,518,410	46,398,188	7,042,200	6,484,167	882,018	18,841,439	2,420,331	3,899,256	449,697
2 New England.....	1,454,655	1,426,801	314,964	264,801	44,361	452,711	76,185	92,781	12,280
3 Maine.....	90,129	90,129	14,221	19,716	2,582	6,791	1,022	8,596	978
4 New Hampshire.....	46,806	46,806	10,090	10,664	1,973	14,919	2,358	(D)	(D)
5 Vermont.....	19,086	19,086	4,334	4,741	1,150	2,742	407	(D)	(D)
6 Massachusetts.....	(D)	684,299	141,376	145,702	23,181	199,154	34,702	53,710	7,435
7 Rhode Island.....	(D)	85,335	16,315	22,566	3,634	28,817	4,220	8,631	964
8 Connecticut.....	(D)	501,146	128,628	61,412	11,841	200,288	33,476	9,933	1,504
9 Middle Atlantic.....	10,818,320	9,905,294	1,490,061	1,134,442	154,589	3,637,650	455,278	1,322,529	142,792
10 New York.....	3,044,679	2,918,837	474,285	309,851	44,282	1,388,828	179,468	246,078	29,263
11 New Jersey.....	1,520,437	1,520,437	265,980	181,506	27,111	367,331	49,858	177,968	20,654
12 Pennsylvania.....	6,253,204	5,466,020	749,796	643,085	83,196	1,881,491	225,952	898,483	92,875
13 East North Central.....	24,578,864	23,858,619	3,485,911	3,505,891	473,393	11,838,801	1,484,342	1,052,761	120,960
14 Ohio.....	6,498,459	6,227,512	938,166	716,836	99,379	3,508,933	442,196	229,649	26,919
15 Indiana.....	2,661,696	2,489,401	359,547	365,034	49,559	978,277	125,532	225,383	23,999
16 Illinois.....	5,658,203	5,410,829	784,655	798,584	101,321	1,850,530	238,971	313,507	34,886
17 Michigan.....	8,043,152	8,014,971	1,142,339	1,391,554	191,562	4,862,265	596,206	214,604	26,748
18 Wisconsin.....	1,717,354	1,715,906	261,204	233,883	31,572	638,796	81,437	69,618	8,408
19 West North Central.....	2,453,962	2,369,109	373,194	375,137	52,500	891,026	125,548	276,709	32,091
20 Minnesota.....	(D)	478,487	76,923	82,736	11,551	144,923	20,954	51,108	6,005
21 Iowa.....	(D)	525,074	73,872	111,084	14,510	229,433	30,182	71,450	8,177
22 Missouri.....	(D)	1,023,545	170,311	103,879	15,177	394,408	55,479	85,994	9,801
23 North Dakota.....	7,445	7,445	1,150	1,890	270	2,253	369	(D)	(D)
24 South Dakota.....	28,442	28,442	3,815	13,782	1,643	6,211	1,045	(D)	(D)
25 Nebraska.....	103,924	103,924	14,536	21,873	3,043	34,074	4,916	24,148	2,730
26 Kansas.....	202,192	202,192	32,587	39,893	6,306	79,724	12,603	37,338	4,560
27 South Atlantic.....	(D)	2,076,491	308,231	228,691	28,554	531,979	66,461	266,917	30,858
28 Delaware.....	(D)	55,109	8,783	11,834	1,700	10,995	1,201	(D)	(D)
29 Maryland.....	(D)	684,615	105,446	67,048	8,040	125,780	15,754	29,276	3,322
30 District of Columbia.....	3,353	3,353	520	(D)	(D)	(D)	(D)	(D)	(D)
31 Virginia.....	(D)	224,312	34,710	44,227	5,137	41,893	5,422	89,885	10,587
32 West Virginia.....	(D)	414,511	49,318	22,444	2,574	234,572	27,205	24,491	2,542
33 North Carolina.....	155,532	155,532	23,993	24,206	3,402	37,007	5,068	43,722	5,007
34 South Carolina.....	49,593	49,593	6,636	(D)	(D)	(D)	(D)	24,442	2,697
35 Georgia.....	(D)	153,019	30,688	21,716	3,091	53,584	7,831	29,146	3,157
36 Florida.....	296,447	296,447	48,137	28,534	3,452	24,076	3,434	21,301	3,037
37 East South Central.....	1,482,498	1,434,985	192,650	256,512	30,781	386,006	52,283	211,971	22,961
38 Kentucky.....	(D)	310,320	48,974	74,657	9,186	106,905	14,829	8,021	1,009
39 Tennessee.....	(D)	425,629	60,648	48,831	6,309	185,344	24,392	60,726	6,642
40 Alabama.....	637,646	597,321	69,119	125,340	13,428	63,421	8,536	123,166	13,081
41 Mississippi.....	101,715	101,715	13,909	7,684	1,858	30,336	4,526	20,058	2,229
42 West South Central.....	2,007,674	1,941,566	294,846	290,610	36,015	326,730	47,357	331,570	41,514
43 Arkansas.....	47,515	47,515	7,272	4,666	586	15,176	2,194	(D)	(D)
44 Louisiana.....	368,236	368,236	50,391	40,883	4,444	70,626	9,821	(D)	(D)
45 Oklahoma.....	(D)	344,623	51,482	51,260	6,968	41,870	5,917	96,998	11,799
46 Texas.....	(D)	1,181,192	185,701	193,801	24,017	199,058	29,425	184,422	24,170
47 Mountain.....	(D)	383,525	54,387	68,255	9,469	89,537	13,668	55,016	6,791
48 Montana.....	5,089	5,089	818	696	102	(D)	(D)	413	54
49 Idaho.....	61,865	61,865	9,336	(D)	(D)	(D)	(D)	5,180	730
50 Wyoming.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
51 Colorado.....	(D)	117,650	18,110	41,872	5,575	18,125	2,806	24,521	2,975
52 New Mexico.....	5,330	5,330	846	1,832	354	687	97	699	95
53 Arizona.....	37,859	37,859	5,704	2,205	313	15,876	2,604	8,319	1,065
54 Utah.....	(D)	151,728	18,902	14,682	1,822	7,324	975	14,718	1,700
55 Nevada.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
56 Pacific.....	3,126,639	3,001,798	527,956	359,828	52,356	686,999	99,209	289,002	39,450
57 Washington.....	(D)	282,992	46,019	51,563	7,572	40,841	5,893	39,319	4,909
58 Oregon.....	(D)	206,547	32,576	41,550	5,507	36,809	5,472	18,968	2,682
59 California.....	2,605,799	2,512,259	449,361	266,715	39,277	609,349	87,844	230,715	31,859

See footnotes at end of table 2D.

SELECTED MATERIALS CONSUMED

210-47

AND FORMS, BY DIVISIONS AND STATES: 1954

Steel mill shapes and forms ¹ --Continued													Metal producing establishments ³ , carbon, alloy stainless, all mill shapes and forms (short tons)
Metal fabricating establishments ² --Continued													
Carbon steel--Continued						Alloy steel (except stainless)				Stainless steel, all mill shapes and forms (331231, 331247, 331248 and 331249)			
Plates (331213)		Wire and wire products (331217)		All other mill shapes and forms (331218, 331219, 331241, and 331242)		Bars and bar shapes (331221 and 331246)		All other mill shapes and forms (331225, 331244, and 331245)					
Short tons	Delivered cost (\$1,000)	Short tons	Delivered cost (\$1,000)	Short tons	Delivered cost (\$1,000)	Short tons	Delivered cost (\$1,000)	Short tons	Delivered cost (\$1,000)	Short tons	Delivered cost (\$1,000)		
4,755,684	545,915	1,842,576	342,265	7,026,702	1,179,564	1,959,037	415,285	1,189,271	365,875	400,056	441,250	2,120,222	
122,073	15,677	119,017	24,535	179,924	36,724	75,597	28,869	86,898	34,833	32,999	41,500	27,854	
12,485	1,382	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1,036	1,156	...	
4,067	519	4,731	855	639	209	(D)	(D)	2,853	1,185	1,021	1,871	...	
1,504	251	(D)	(D)	(D)	(D)	1,984	1,254	(D)	(D)	70	84	...	
75,737	9,362	58,608	10,205	74,509	14,395	31,461	13,207	30,506	11,367	14,912	17,522	(D)	
4,174	504	4,519	857	10,262	2,087	2,796	1,366	1,991	778	1,579	1,905	(D)	
24,106	3,659	50,882	12,523	52,415	12,859	36,315	12,340	51,414	21,464	14,381	18,962	(D)	
1,288,485	141,106	311,516	66,345	1,513,293	251,006	344,650	76,431	248,348	82,670	104,381	119,844	913,026	
278,946	33,400	75,405	18,346	357,420	60,077	134,782	29,308	85,180	28,976	42,347	51,165	125,842	
124,307	14,646	57,613	13,756	488,353	82,381	52,754	14,752	44,642	17,079	25,963	25,743	...	
885,232	93,060	178,498	34,243	667,520	108,548	157,114	32,371	118,526	36,615	36,071	42,936	787,184	
1,689,371	192,276	1,046,106	182,455	2,564,126	412,594	1,295,226	249,710	671,838	171,916	194,499	198,265	720,245	
485,648	55,238	371,309	56,214	389,602	69,022	262,327	57,045	200,911	64,310	62,297	67,843	270,947	
266,235	28,840	57,504	10,119	288,839	48,319	221,686	38,099	71,376	19,765	15,067	15,315	172,295	
471,795	50,573	320,997	58,204	1,259,172	194,204	146,506	29,366	215,952	41,933	33,786	35,197	247,374	
280,347	36,217	257,832	51,552	217,365	37,400	609,474	113,207	117,158	29,582	64,372	59,865	28,181	
185,346	21,408	38,464	6,366	409,148	63,649	55,233	11,993	66,441	16,326	18,977	20,045	1,448	
218,594	26,212	88,820	18,992	443,498	79,074	25,206	6,367	36,055	15,577	14,064	16,833	84,853	
47,936	5,657	13,755	2,803	128,395	24,492	4,093	1,034	2,870	1,341	2,671	3,086	(D)	
68,197	8,226	15,672	3,111	16,923	2,891	4,653	1,032	3,225	562	4,437	5,181	(D)	
60,045	6,871	48,864	11,057	283,446	48,907	13,760	3,148	27,348	12,868	5,801	7,003	(D)	
(D)	(D)	(D)	(D)	284	72	(D)	(D)	(D)	(D)	...	...	...
(D)	(D)	(D)	(D)	486	107	(D)	(D)	...	...	(D)	(D)	...
12,460	1,586	1,367	291	9,128	1,581	(D)	(D)	(D)	(D)	(D)	(D)	...	
27,464	3,541	7,375	1,435	4,836	1,024	2,199	998	2,344	705	1,019	1,415	...	
161,229	17,618	74,358	13,528	759,330	121,261	18,022	5,049	24,293	11,949	11,672	12,953	(D)	
(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	765	248	881	1,047	(D)	
46,101	4,567	38,439	5,789	366,800	60,738	4,087	1,541	3,772	1,195	3,312	4,500	(D)	
(D)	(D)	...	...	(D)	(D)	...	...	...	...	(D)	(D)	...
23,411	2,682	7,949	1,797	(D)	(D)	(D)	(D)	(D)	(D)	632	621	(D)	
20,025	2,117	1,337	270	109,457	14,062	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
14,651	2,085	20,680	3,947	13,209	2,778	435	221	570	236	1,052	1,249	...	
6,566	746	1,769	562	4,553	622	194	50	(D)	(D)	352	426	...	
28,373	2,884	2,860	903	47,140	7,166	477	347	6,810	2,601	2,913	2,708	(D)	
(D)	(D)	(D)	(D)	(D)	(D)	221	92	(D)	(D)	2,379	2,238	...	
322,386	35,163	51,676	7,233	171,876	30,175	18,295	3,218	11,175	5,425	5,088	5,411	47,513	
38,639	5,680	6,776	1,171	55,894	10,975	14,393	2,362	2,375	1,075	2,660	2,687	(D)	
63,462	7,548	9,396	1,595	51,312	10,927	2,516	454	2,419	1,053	1,623	1,728	(D)	
181,263	17,900	35,294	4,428	62,459	7,877	(D)	(D)	4,476	2,734	(D)	(D)	40,325	
39,022	4,035	(4)	(4)	2,211	396	(D)	(D)	1,905	563	(D)	(D)	...	
392,567	47,537	38,704	7,315	412,761	69,722	102,206	23,155	38,753	14,263	7,665	7,968	66,108	
4,022	565	(D)	(D)	12,537	2,251	(D)	(D)	(D)	(D)	(D)	(D)	...	
86,678	10,427	(D)	(D)	119,291	17,654	(D)	(D)	(D)	(D)	(D)	(D)	...	
93,039	11,835	6,082	1,148	34,469	7,103	12,107	3,010	8,240	3,028	558	674	(D)	
208,828	24,710	28,053	5,231	246,464	42,714	86,343	18,934	27,499	9,621	6,724	6,879	(D)	
117,937	12,899	5,467	825	39,302	7,086	1,470	631	5,655	1,907	886	1,111	(D)	
1,000	124	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	...	
5,652	726	(D)	(D)	831	116	(D)	(D)	(D)	(D)	(D)	(D)	...	
(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	...	
14,692	1,827	4,479	615	7,329	1,620	1,103	489	5,085	1,664	444	539	(D)	
1,958	260	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	...	
7,362	861	(D)	(D)	(D)	(D)	146	56	(D)	(D)	(D)	(D)	...	
86,284	8,969	602	99	27,342	4,787	(D)	(D)	(D)	(D)	266	317	(D)	
(D)	(D)	...	...	(D)	(D)	...	...	...	...	...	...	...
443,042	57,427	106,912	21,037	942,592	171,922	78,365	21,855	66,256	27,335	28,802	37,365	124,841	
31,840	3,908	7,558	2,282	(D)	(D)	3,761	1,323	(D)	(D)	1,712	2,335	(D)	
34,007	4,440	1,744	366	(D)	(D)	2,506	604	(D)	(D)	992	1,289	(D)	
377,195	49,079	97,610	18,389	769,496	143,140	72,098	19,928	62,983	26,104	26,098	33,741	93,540	

MANUFACTURES—SUMMARY STATISTICS

Table 2C.—CONSUMPTION OF NONFERROUS MILL SHAPES AND FORMS, BY DIVISIONS AND STATES: 1954

Division and State	Nonferrous mill shapes and forms							
	Aluminum and aluminum-base alloy, all mill shapes and forms (335211)		Copper and copper-base alloy ¹					
			Bare wire (335111)		Insulated wire and cable (363111)		All other mill shapes and forms (335119)	
	Quantity (1,000 pounds)	Delivered cost (\$1,000)	Quantity (1,000 pounds)	Delivered cost (\$1,000)	Quantity (1,000 pounds metal content)	Delivered cost (\$1,000)	Quantity (1,000 pounds)	Delivered cost (\$1,000)
United States, total.....	⁶ 1,511,545	⁶ 729,571	⁶ 269,180	⁶ 132,985	367,860	229,495	⁷ 1,380,708	⁷ 655,934
New England.....	53,343	26,054	53,793	25,848	33,507	21,915	221,198	104,075
Maine.....	150	77	...	...	(D)	(D)	1,029	599
New Hampshire.....	2,837	1,036	683	301	862	594	4,264	2,083
Vermont.....	310	179	...	...	(D)	(D)	1,588	755
Massachusetts.....	23,081	12,449	21,037	10,619	23,534	15,601	40,053	20,850
Rhode Island.....	1,577	1,025	10,455	4,513	1,269	800	9,243	4,344
Connecticut.....	25,388	11,288	21,618	10,415	6,778	4,172	165,021	75,444
Middle Atlantic.....	324,516	158,868	72,066	34,286	95,219	64,162	411,392	192,876
New York.....	131,059	70,688	23,468	11,723	31,747	21,677	280,740	125,555
New Jersey.....	55,457	25,860	9,828	5,055	18,763	13,678	46,285	24,464
Pennsylvania.....	138,000	62,320	38,770	17,508	44,709	28,807	84,367	42,857
East North Central.....	464,069	211,045	113,108	57,701	181,676	105,551	488,290	234,253
Ohio.....	145,990	72,160	39,851	20,670	46,347	27,127	101,262	53,213
Indiana.....	52,655	29,804	11,776	6,626	70,238	32,935	76,976	37,826
Illinois.....	122,558	45,105	38,240	18,047	37,689	27,054	122,904	57,774
Michigan.....	84,502	38,351	16,692	9,058	17,335	11,659	134,359	58,970
Wisconsin.....	58,364	25,625	6,549	3,300	10,067	6,776	52,789	26,470
West North Central.....	123,006	68,015	10,080	5,737	23,846	15,832	141,319	68,122
Minnesota.....	29,051	11,802	2,364	1,492	2,637	1,569	54,091	25,821
Iowa.....	9,197	4,255	1,049	560	663	531	3,638	1,836
Missouri.....	42,453	22,307	4,854	2,610	18,574	11,811	78,093	36,999
North Dakota.....	(D)	(D)	...	...	...	...	...	...
South Dakota.....	(D)	(D)	...	...	...	...	(D)	(D)
Nebraska.....	3,314	2,266	786	464	1,160	1,236	(D)	(D)
Kansas.....	38,920	27,354	1,027	611	812	685	4,304	2,821
South Atlantic.....	133,620	57,579	4,152	1,903	9,666	6,395	23,783	10,639
Delaware.....	706	341	(D)	(D)	121	103	2,481	968
Maryland.....	20,956	10,742	2,427	1,055	2,604	1,803	9,583	4,218
District of Columbia.....	45	32	...	...	(D)	(D)	(D)	(D)
Virginia.....	47,333	12,926	(D)	(D)	853	991	2,589	1,304
West Virginia.....	1,813	769	(D)	(D)	2,363	1,302	3,242	1,292
North Carolina.....	8,857	3,521	280	158	548	293	1,646	872
South Carolina.....	1,285	682	...	...	(D)	(D)	(D)	(D)
Georgia.....	15,193	10,596	1,210	578	2,489	1,439	3,228	1,487
Florida.....	37,432	17,970	(D)	(D)	495	330	905	441
East South Central.....	125,436	44,367	1,553	877	2,350	1,690	17,972	8,597
Kentucky.....	74,314	24,843	675	360	655	621	9,395	4,602
Tennessee.....	29,649	10,665	(D)	(D)	318	224	6,950	3,177
Alabama.....	20,590	8,489	242	109	109	82	1,242	599
Mississippi.....	883	370	(D)	(D)	1,268	763	385	219
West South Central.....	48,508	25,997	1,152	582	4,634	2,947	15,154	7,479
Arkansas.....	9,818	3,287	359	173	1,546	1,009	207	101
Louisiana.....	1,091	477	...	...	55	42	522	331
Oklahoma.....	14,128	7,651	47	23	1,555	990	2,625	1,320
Texas.....	23,471	14,582	746	386	1,478	906	11,800	5,727
Mountain.....	8,730	4,428	1,461	602	623	436	2,961	1,305
Montana.....	(D)	(D)	(D)	(D)	...	...	...	...
Idaho.....	142	61	...	...	...	...	(D)	(D)
Wyoming.....	(D)	(D)	(D)	(D)	...	...	(D)	(D)
Colorado.....	1,345	902	1,363	557	562	392	2,511	1,049
New Mexico.....	(D)	(D)	...	...	(D)	(D)	(D)	(D)
Arizona.....	5,949	2,857	67	33	(D)	(D)	258	156
Utah.....	500	277	(D)	(D)	...	...	(D)	(D)
Nevada.....	...	...	...	...	...	...	...	...
Pacific.....	230,317	133,218	11,815	5,449	16,339	10,567	58,639	28,588
Washington.....	26,113	17,127	(D)	(D)	1,734	1,197	1,920	1,039
Oregon.....	3,669	1,622	(D)	(D)	486	249	735	379
California.....	200,535	114,469	11,502	5,300	14,119	9,121	55,984	27,170

See footnotes at end of table.2D.

SELECTED MATERIALS CONSUMED

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Table 2D.--CONSUMPTION OF SPECIFIED PRIMARY METALS AND SCRAP, BY DIVISIONS AND STATES: 1954

Division and State	Refinery shapes ⁸				Scrap ⁹			
	Copper and copper-base alloy (333111, 333113, and 333115)		Aluminum and aluminum-base alloy (333411 and 333421)		Copper and copper-base alloy (941021)		Aluminum and aluminum-base alloy (941031)	
	Quantity (short tons)	Delivered cost (\$1,000)	Quantity (short tons)	Delivered cost (\$1,000)	Quantity (short tons)	Delivered cost (\$1,000)	Quantity (short tons)	Delivered cost (\$1,000)
United States, total.....	1,210,161	711,412	1,310,356	554,759	883,298	379,703	378,091	118,294
New England.....	228,945	135,913	12,204	8,778	153,803	69,570	4,305	1,419
Maine.....	(D)	(D)	...	...	(D)	(D)	...	...
New Hampshire.....	517	261	(D)	(D)	1,550	643	...	...
Vermont.....	(D)	(D)	(D)	(D)	(D)	(D)	...	...
Massachusetts.....	18,085	10,392	4,782	2,383	20,051	9,062	777	286
Rhode Island.....	19,285	11,584	125	60	(D)	(D)	...	...
Connecticut.....	190,869	113,558	14,252	6,312	131,962	59,746	3,528	1,133
Middle Atlantic.....	439,701	264,449	223,431	95,505	219,278	95,425	63,897	20,572
New York.....	189,132	114,623	112,780	48,158	104,221	46,928	29,168	10,253
New Jersey.....	188,185	113,243	39,131	17,253	32,132	12,745	14,687	4,608
Pennsylvania.....	62,384	36,583	71,520	30,094	82,925	35,752	20,042	5,711
East North Central.....	390,998	224,752	454,117	195,071	377,656	158,812	179,214	54,733
Ohio.....	87,871	51,588	180,033	77,414	45,776	20,084	75,541	21,469
Indiana.....	102,818	61,103	50,887	21,886	54,070	22,179	19,849	6,456
Illinois.....	59,668	34,314	123,011	50,700	179,142	72,187	57,383	17,527
Michigan.....	103,575	55,310	85,078	38,529	84,362	38,138	20,237	6,890
Wisconsin.....	37,066	22,437	15,108	6,542	14,306	6,224	6,204	2,391
West North Central.....	30,140	17,759	98,919	41,736	27,599	11,469	21,994	7,083
Minnesota.....	1,593	923	2,614	1,237	2,478	1,005	(D)	(D)
Iowa.....	2,936	1,585	85,500	35,700	(D)	(D)	7,686	2,550
Missouri.....	24,752	14,789	7,961	3,571	11,691	5,009	6,486	1,794
North Dakota.....	...	...	(D)	(D)	...	...	...	...
South Dakota.....	...	...	...	...	...	...	...	...
Nebraska.....	465	230	(D)	(D)	(D)	(D)	1,800	632
Kansas.....	394	232	2,580	1,120	12,824	5,150	(D)	(D)
South Atlantic.....	27,742	15,207	51,208	22,625	21,068	9,469	13,237	4,409
Delaware.....	(D)	(D)	(D)	(D)	9,726	4,033	(D)	(D)
Maryland.....	18,433	10,552	26,289	11,431	(D)	(D)	4,327	1,654
District of Columbia.....	...	...	(D)	(D)	...	...	...	...
Virginia.....	1,085	411	103	47	5,700	2,370	(D)	(D)
West Virginia.....	5,563	2,539	12,969	5,980	(D)	(D)	(D)	(D)
North Carolina.....	132	68	192	97	...	...	(D)	(D)
South Carolina.....	(D)	(D)	(D)	(D)	...	...	...	...
Georgia.....	2,066	1,240	6,474	2,729	932	415	(D)	(D)
Florida.....	429	380	4,021	1,786	(D)	(D)	932	374
East South Central.....	22,922	12,701	204,878	83,686	16,540	8,842	32,254	10,886
Kentucky.....	6,230	2,829	529	217	129	57	(D)	(D)
Tennessee.....	1,560	898	104,744	42,759	486	261	(D)	(D)
Alabama.....	15,132	8,974	98,859	40,409	15,925	8,524	14,692	5,635
Mississippi.....	...	...	746	301	...	...	...	...
West South Central.....	3,370	2,045	13,310	5,848	6,829	2,906	2,954	1,086
Arkansas.....	431	256	5,584	2,412	(D)	(D)	1,728	618
Louisiana.....	429	234	(D)	(D)	(D)	(D)	(D)	(D)
Oklahoma.....	1,020	632	(D)	(D)	(D)	(D)	(D)	(D)
Texas.....	1,490	923	6,928	2,958	6,524	2,750	1,093	423
Mountain.....	38,470	23,113	24,670	10,026	2,159	945	2,282	931
Montana.....	(D)	(D)	(D)	(D)	(D)	(D)	...	...
Idaho.....	...	...	...	...	...	...	...	...
Wyoming.....	...	...	...	...	...	...	...	...
Colorado.....	291	202	334	151	1,665	787	(D)	(D)
New Mexico.....	...	...	(D)	(D)	...	...	...	...
Arizona.....	(D)	(D)	23,512	9,508	(D)	(D)	(D)	(D)
Utah.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Nevada.....	...	...	...	...	...	...	...	...
Pacific.....	27,873	15,473	220,619	91,484	58,366	22,265	57,954	17,175
Washington.....	918	547	171,472	69,927	1,043	544	15,541	5,271
Oregon.....	933	579	291	131	2,287	1,109	176	63
California.....	26,022	14,347	48,856	21,426	55,036	20,612	42,237	11,841

See footnotes at end of table.

Table 2D.--CONSUMPTION OF SPECIFIED PRIMARY METALS AND SCRAP, BY DIVISIONS AND STATES: 1954--Continued

FOOTNOTES

¹ D Withheld to avoid disclosing operations of individual companies.

² The data shown in this table for steel and copper and copper-base alloy mill shapes and forms represent the actual consumption of each type of material. The combinations of data for two or more materials which were made in tables 1A and 1C for individual industries and 2-digit industry groups are excluded from the State figures.

³ Metal fabricating establishments include plants whose primary activity is the manufacture of products fabricated beyond the metal mill or foundry level. In this table establishments in Industry 3391, "Iron and Steel Forgings," are classified as metal fabricators rather than producers of primary metals. As billets and bars used by the forging plants are included in the steel mill shapes and forms consumed, forgings are excluded from the consumption data to avoid duplication by counting both the forgings and the bars and billets from which the forgings are made.

⁴ The term, metal producing establishments, includes steel works and rolling mills, independent pipe mills, wire drawing establishments, and cold rolling, drawing and finishing establishments. The data shown for the metal producing establishments include only mill shapes and forms used in the production of fabricated products or in maintenance and repair work.

⁵ Cost of materials less than \$50 thousand.

⁶ The data shown in this table for castings represent purchases by metal fabricating plants from other establishments; they exclude the consumption of castings produced in the same plant.

⁷ These figures differ from the industry totals given in table 1C because data for establishments classified in Industry 3631, "Insulated Wire and Cable," are excluded from the State figures to avoid duplication of data by counting both the insulated wire and cable produced by these plants and the bare wire consumed in the manufacture of the insulated wire and cable.

In addition to the materials consumed data shown in this table for the metal fabricating industries, 151,210 thousand pounds of aluminum-base alloy bare wire and 8,728 thousand pounds of copper and copper-base alloy wire was produced and consumed in the manufacture of fabricated products by nonferrous metal mills and wire drawing establishments.

⁸ An additional 31,794 thousand pounds of copper and copper-base alloy rolled, drawn and extruded mill products, other than wire and cable, were produced and consumed in the manufacture of fabricated products by nonferrous metal mills and wire drawing establishments which are classified in the Primary Metal Industries, Major Group 33.

⁹ These data represent the total consumption of company-owned materials. Materials consumed in toll processing are included in the total consumption of the owning establishment.

¹⁰ The data shown for scrap represent only the consumption of purchased scrap in selected industries.

Engines, Motors, and Bearings

This section presents data on gasoline and Diesel engines, fractional and integral horsepower motors, and ball and roller bearings consumed by metal fabricating industries in 1954. These components represent a small part of the total value of components and fabricated parts and subassemblies consumed in manufacturing. For the most part, the remainder consists of complex intermediate parts and components for which no information was collected in the 1954 Census of Manufactures.

In comparing the consumption data with shipments figures for the components shown in this section, it should be noted that

the consumption data covers the manufacturing industries only. The consumption of these components in construction, mining, farm uses and in other nonmanufacturing areas such as replacement, repair, and export is not included in this section.

Table 1A through 1C present data for the consumption of these components by industry. Table 2 presents data for consumption of ball and roller bearings geographically by division and State. Similar geographic data are not available for fractional or integral horsepower motors or for gasoline and Diesel engines.

Table 1A.--GASOLINE AND DIESEL ENGINES CONSUMED, BY INDUSTRY: 1954

Code	Industry	Gasoline and other carburetor engines, except automotive and aircraft (351911)			Diesel and semi-Diesel engines, except automotive (351921)		
		Received from other establishments		Produced and consumed in the same establishment	Received from other establishments		Produced and consumed in the same establishment
		Quantity (Number)	Delivered cost (\$1,000)		Quantity (Number)	Delivered cost (\$1,000)	
	Selected industries, totals.....	(NA)	146,893	(NA)	47,496	78,075	(NA)
19	Ordnance and accessories.....	34,254	52,244	(NA)	(NA)	(NA)	(NA)
35	Machinery, except electrical.....	(NA)	85,043	(NA)	44,713	61,792	(NA)
3521	Tractors.....	235,647	15,864	183,763	30,463	31,280	35,672
3522	Farm machinery (except tractors).....	(NA)	41,026	(NA)	(NA)	(NA)	
3531	Construction and mining machinery.....	56,751	11,468	1,078	11,968	26,224	
3532	Oil-field machinery and tools.....	2,854	2,639		470	1,977	
3561	Pumps and compressors.....	118,620	5,833	(NA)	927	1,709	(NA)
3563	Conveyors.....	12,934	794		595	317	
3565	Industrial trucks and tractors.....	25,921	7,312		290	285	
3569	General industrial machinery, n.e.c.....	1,059	107		(NA)	(NA)	
3614	Motors and generators.....	21,122	4,322	11,099	1,778	2,693	739
37	Transportation Equipment.....	72,397	5,284	21,479	1,005	13,590	(NA)
3731	Ship building and repairing.....	(NA)	(NA)	(NA)	211	3,014	(NA)
3732	Boat building and repairing.....	24,652	4,169	686	200	791	(NA)
3741	Locomotive and parts.....	(NA)	(NA)	(NA)	594	9,785	1,351
3751	Motoreycles and bicycles.....	47,745	1,115	20,793	(NA)	(NA)	(NA)

NA Not available.

MANUFACTURES—SUMMARY STATISTICS

Table 1B.—FRACTIONAL AND INTEGRAL HORSEPOWER ELECTRIC MOTORS CONSUMED, BY INDUSTRY: 1954

Code	Industry	Fractional hp ¹ (361411)		Integral HP (361431)	
		Purchased or received from other plants of the same company			
		Quantity (1,000)	Delivered cost (\$1,000)	Quantity (1,000)	Delivered cost (\$1,000)
	Total.....	37,209	312,665	1,687	160,755
3439	Heating and cooking equipment, n.e.c.....	1,775	22,277	16	996
3519	Internal combustion engines.....	...	...	52	9,240
3522	Farm machinery (except tractors).....	(2)	(2)	10	1,309
3531	Construction and mining machinery.....	(2)	(2)	22	11,021
3541	Machine tools.....	(2)	(2)	62	14,375
3542	Metalworking machinery.....	570	5,515	26	5,998
3551	Food-products machinery.....	(2)	(2)	36	4,749
3552	Textile machinery.....	...	...	24	2,076
3553	Woodworking machinery.....	46	1,060	8	1,295
3555	Printing-trades machinery.....	...	...	6	724
3559	Special industries machinery, n.e.c.....	(2)	(2)	21	4,410
3561	Pumps and compressors.....	1,293	25,778	127	20,697
3562	Elevators and escalators.....	11	730	4	1,618
3563	Conveyors.....	68	2,109	17	3,632
3564	Blowers and fans.....	1,482	14,418	41	4,871
3565	Industrial trucks and tractors.....	13	651	6	737
3569	General industrial machinery, n.e.c.....	48	1,308	7	1,674
3571	Computing and related machines.....	398	7,321	4	377
3572	Typewriters.....	120	1,134	(2)	(2)
3579	Office and store machines, n.e.c.....	317	2,070	(2)	(2)
3581	Domestic laundry equipment.....	3,720	34,663	(2)	(2)
3582	Laundry and dry cleaning machinery.....	38	1,001	10	1,471
3583	Sewing machines.....	583	3,359	(2)	(2)
3584	Vacuum cleaners.....	811	6,292	(2)	(2)
3585	Refrigeration machinery.....	10,204	83,893	1,092	37,114
3586	Measuring and dispensing pumps.....	130	3,987	(2)	(2)
3589	Service and household machines, n.e.c.....	831	8,296	12	778
3614	Motors and generators.....	27	664	22	7,911
3621	Electrical appliances.....	2,083	9,343	(2)	(2)
3661	Radios and related products.....	2,788	22,403	(2)	(2)
3721	Aircraft.....	70	3,912	(2)	(2)
3722	Aircraft engines.....	31	2,447	(2)	(2)
3723	Aircraft propellers.....	39	919	(2)	(2)
3729	Aircraft equipment, n.e.c.....	227	5,755	(2)	(2)
3731	Shipbuilding and repairing.....	(2)	(2)	1	1,911
3741	Locomotives and parts.....	(2)	(2)	11	15,390
3742	Railroad and streetcars.....	(2)	(2)	8	908
3811	Scientific instruments.....	175	5,601	(2)	(2)
3821	Mechanical measuring instruments.....	84	2,034	(2)	(2)
3861	Photographic equipment.....	874	3,790	(2)	(2)
3871	Watches and clocks.....	5,580	5,961	(2)	(2)
1900	Ordnance and accessories.....	291	9,141	(2)	(2)
	All other industries.....	2,482	314,833	42	5,473

NA Not available.

¹In addition there were 21,695 thousand fractional horsepower motors produced and consumed at the same establishment as follows: Industry 3584, Vacuum Cleaners, 1,392 thousand; Industry 3585, Refrigeration Machinery, 417 thousand; Industry 3589, Service and Household Machines, N.E.C., 96 thousand; Industry 3614, Motors and Generators, 2,320 thousand; Industry 3621, Electrical Appliances, 10,163 thousand; and All other industries, 7,307 thousand.

²Included in "All other industries".

³Includes \$2,045 thousand consumed by Industry 3522, Farm Machinery, Except Tractors; \$1,059 thousand by Industry 3531, Construction and Mining Machinery; \$3,106 thousand by Industry 3541, Machine Tools; \$590 thousand by Industry 3544, Special Dies and Tools; \$2,843 thousand by Industry 3551, Food Products Machinery; and \$1,799 thousand by Industry 3559, Special Machinery Industry, N.E.C. Separate quantity data are not available for these industries.

SELECTED MATERIALS CONSUMED

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Table 1C.—BALL AND ROLLER BEARINGS (359311) CONSUMED, BY INDUSTRY: 1954

Code	Industry	Delivered cost (\$1,000)	Code	Industry	Delivered cost (\$1,000)
	Total.....	246,185	3559	Special industry machinery, n.e.c.....	1,492
3439	Heating and cooking equipment, n.e.c.....	292	3561	Pumps and compressors.....	3,679
3511	Steam engines and turbines.....	150	3564	Blowers and fans.....	1,809
3519	Internal combustion engines.....	3,709	3566	Power-transmission equipment.....	8,161
3521	Tractors.....	22,137	3569	General industry machinery.....	314
3522	Farm machinery except tractors.....	9,345	3613	Electrical measuring instruments.....	490
			3614	Motors and generators.....	20,984
3531	Construction and mining machinery.....	10,764	3641	Engine electrical equipment.....	2,522
3532	Oil-field machinery and tools.....	3,749	3717	Motor vehicles and parts.....	78,476
3541	Machine tools.....	8,325	3721	Aircraft.....	5,281
3542	Metalworking machinery.....	5,782	3722	Aircraft engines.....	19,548
3544	Special dies and tools.....	288	3729	Aircraft equipment, n.e.c.....	5,116
			3723	Aircraft propellers.....	1,420
3545	Metalworking machinery attachments.....	240	3741	Locomotive and parts.....	4,782
3551	Foods-products machinery.....	1,565	3742	Railroad and streetcars.....	627
3552	Textile machinery.....	2,579	3811	Scientific instruments.....	5,546
3553	Woodworking machinery.....	1,675	3821	Mechanical measuring instruments.....	289
3554	Paper-industries machinery.....	2,594	1900	Ordnance and accessories.....	8,071
				All other industries.....	4,384

Table 2.—BALL AND ROLLER BEARINGS CONSUMED, BY DIVISIONS AND STATES: 1954

Division and State ¹	Delivered cost (\$1,000)	Division and State ¹	Delivered cost (\$1,000)
United States, total.....	246,185	South Atlantic.....	3,775
New England.....	20,141	Maryland.....	963
New Hampshire.....	472	West Virginia.....	502
Vermont.....	850	North Carolina.....	551
Massachusetts.....	3,776	South Carolina.....	596
Connecticut.....	14,261	Georgia.....	719
Middle Atlantic.....	28,813	East South Central.....	2,581
New York.....	11,900	Kentucky.....	1,027
New Jersey.....	9,046	Tennessee.....	878
Pennsylvania.....	7,867	Alabama.....	443
East North Central.....	153,421	Mississippi.....	233
Ohio.....	29,156	West South Central.....	4,390
Indiana.....	26,270	Oklahoma.....	1,104
Illinois.....	30,202	Texas.....	2,949
Michigan.....	55,720	Mountain.....	627
Wisconsin.....	12,073	Colorado.....	493
West North Central.....	21,180	Pacific.....	11,257
Minnesota.....	2,986	California.....	10,308
Iowa.....	6,679		
Missouri.....	10,591		
Kansas.....	764		

¹Consumption of over \$250 thousand of ball and roller bearings were reported for the following States: Maine, Rhode Island, Delaware, Louisiana, and Washington. Exact figures are withheld to avoid disclosing figures for individual companies.

INDEX

In addition to the materials for which data are shown in the preceding tables, Volume II, "Industry Statistics," also contains data on a large number of other materials. The Census coverage of these other materials is limited to the industries in which they are an important part of the total material cost. However, in a few instances, materials with more general coverage are listed.

One category of consumption data collected in the 1954 Census of Manufactures is not included in this chapter, either in the preceding tables or the index below. This category encompasses items for which consumption information was collected

in conjunction with production data. Frequently this represented consumption of products produced in the same establishments. In other cases, receipts or purchases of products which were also produced by establishments in the industry were collected. Such statistics are included in the product tables in Volume II.

To find the data for any of the materials shown below, refer to the Table of Contents in Volume II which lists the industries shown in the "Consuming Industries" column below. The data on material consumption will be found in the table 7 for the specified industry.

ADDITIONAL MATERIALS FOR WHICH CONSUMPTION DATA ARE SHOWN IN THE CENSUS OF MANUFACTURES, VOLUME II, "INDUSTRY STATISTICS"

Materials code	Material	Consuming industries	Materials code	Material	Consuming industries
011131	Sorghum grain.....	2041, 2042	147461	Other potash bearing materials, excluding potassium nitrate.....	2871, 2872
011135	Rice, rough.....	2044	147511	Phosphate rock (used in the manufacture of superphosphate).....	2871
011141	Sugar cane.....	2061	149811	Soil conditioners (peat, nut hulls and citrus meals).....	2871, 2872
011145	Sugar beets.....	2063	149900	Asbestos, crude.....	3292, 3293
011151	Rye.....	2085	200011	Fats and oils, other than lard and shortening (including oils, butter, margarine, puff paste, etc.).....	2051, 2052
	Fresh fruits:		201011	Lard.....	2051, 2052
011211	Oranges.....	2033, 2037	201021	Meat scrap and tankage.....	2041, 2042, 2871
011213	Grapes.....	2033, 2037	201111	Meats (fresh or cured), hides and natural casings....	2011, 2013
011215	Apples.....	2033, 2035, 2037	202311	Dried milk.....	2051, 2052
011217	Peaches.....	2033, 2037	202711	Whole milk received.....	2021, 2022, 2023, 2024, 2025, 2026
011219	Other fresh fruit.....	2033, 2035, 2037	202731	Cream received.....	2021, 2022, 2023
011231	Cocoa beans.....	2071, 2072			2024, 2025, 2026
011251	Green coffee.....	2099	203211	Fish scrap and meal.....	2041, 2042
	Fresh vegetables:		203411	Dried beans.....	2033, 2035
011311	Tomatoes.....	2033, 2035, 2037	203451	Dried fruit.....	2033, 2035, 2037
011331	Sweet corn.....	2033, 2037	204121	Corn meal.....	2041, 2042, 2045
011351	Snap or wax beans.....	2033, 2035, 2037	204131	Hominy feed and meal.....	2041, 2042
011371	Green peas.....	2033, 2035, 2037	204141	Corn gluten feed and meal.....	2041, 2042
011511	Cattle.....	2011, 2013	204151	Millfeed and screenings.....	2041, 2042
011515	Calves.....	2011, 2013	204211	Alfalfa meal.....	2041, 2042
011521	Sheep and lambs.....	2011, 2013	207211	Chocolate coatings, including cocoa powder composition coatings.....	2071
011525	Hogs.....	2011, 2013	208211	Brewers and distillers grain.....	2041, 2042
	Poultry killed:		208311	Malt.....	2082, 2085
011531	Young chickens, 2 to 4 lbs. live weight (including commercial broilers).....	2015, 2099		Materials used in bottling:	
011533	Hens (or fowl) and other chickens.....	2015, 2099	208511	Spirits.....	2085
011535	Turkeys.....	2015, 2099	208551	Aged whiskey.....	2085
011539	Other poultry and small game (includes ducks, geese, rabbits, etc.).....	2015	209211	Shortening.....	2051, 2052
011541	Shell eggs.....	2015, 2099	209411	Purchased corn starch.....	2094
021111	Cost of stumpage cut.....	2411, 2421, 2422, 2423, 2424, 2432, 2441, 2444, 2445, 2491	209911	Frozen eggs.....	2051, 2052
084231	Raw cork (cork wood or bark unmanufactured and cork waste, shavings and refuse).....	3982	221100	Wool noils and waste.....	2282
101111	Iron ore.....	3311, 3312	221111	Carpet wool (scoured weight).....	2271, 2273
102111	Copper ores, concentrates and precipitates..	3331	221121	Raw wool (scoured weight).....	2282
103211	Lead ores and concentrates.....	3332	222111	Cotton yarns.....	2233, 2234, 2241, 2251, 2252, 2253, 2254, 2255, 2256, 2259, 2271, 2273
103311	Zinc ores and concentrates.....	3333			
105111	Bauxite.....	2819	222121	Acetate and rayon yarns.....	2233, 2234, 2241, 2251, 2252, 2253, 2254, 2255, 2256, 2259
106211	Manganese ore (containing 5 percent or more manganese).....	3311, 3312, 3313	222131	Nylon yarns.....	2233, 2234, 2241, 2251, 2252, 2253, 2254, 2255, 2256, 2259
131411	Natural gasoline, mixed and crude (includes drip gasoline).....	2911	222141	Wool yarns.....	2233, 2234, 2251, 2252, 2253, 2254, 2255, 2256, 2259, 2271, 2273
131421	Liquefied petroleum gases (from natural gasoline plants).....	2911	222151	Synthetic yarns.....	2233, 2234, 2271, 2273
131511	Cycle condensate (include mixed with crudes).....	2911	222161	Other yarns.....	2233, 2234, 2241
140011	Secondary plant food (lime-stone, magnesium oxide, copper compounds, etc.) except sulfur.....	2871, 2872	223011	Upholstery fabrics (woven).....	2511, 2512, 2514, 2515
144111	Glass sand, all types.....	3211, 3221, 3229	223111	Cotton fabrics.....	2295
144151	Inert fillers.....	2871, 2872	223131	Synthetic fabrics.....	2295
	Muriate of potash:		228411	Hatters' fur.....	2281, 2282
147411	60-62% K ₂ O.....	2871, 2872	229311	Paddings and fillings, except latex foam....	2511, 2512, 2514, 2515
147421	50 K ₂ O.....	2871, 2872	229711	Jute yarns.....	2271
147431	Manure salts (30% K ₂ O and under).....	2871, 2872	241111	Logs and bolts.....	2411, 2421, 2422, 2423, 2424, 2425, 2432, 2441, 2444, 2445, 2499, 2511
147441	Sulfate of potash.....	2871, 2872	241115		
147451	Sulfate of potash-magnesia.....	2871, 2872			

ADDITIONAL MATERIALS FOR WHICH CONSUMPTION DATA ARE SHOWN IN THE CENSUS OF MANUFACTURES, VOLUME II, "INDUSTRY STATISTICS"--Continued

Mate- rials code	Materials	Consuming industries	Mate- rials code	Materials	Consuming industries
241119	Stumps, softwood.....	2862	280041	Other phosphatic materials.....	2871, 2872
241121	Poles, piling and other round or hewn wood products.....	2491	280043	Urea and calurea (nitrogen content).....	2871, 2872
241125	Cordwood, hardwoods consumed in distillation	2861	280049	Other organic ammoniates including tobacco stems.....	2871, 2872
	Bolts and logs:		280051	Pigment.....	2274, 2295
	Softwood:		280061	Anti-oxidants and inhibitors for petroleum products.....	2911, 2992
241131	Spruce and true fir.....	2611	280071	Additives used in making lubricants (soap, vegetable and animal oils, chemicals, detergents, etc.).....	2911, 2992
241133	Hemlock.....	2611	281135	Spent sulfuric acid transferred from other plants or purchased and in the manufacture of superphosphate.....	2871
241135	Jack pine.....	2611	281151	Sulfuric acid sludge (decomposition acid)...	2811, 2819
241137	Southern pine.....	2611	281911	Silver nitrate.....	3231, 3861
241139	Other softwoods.....	2611	281915	Alumina.....	3334
	Hardwood:		281921	Hydrochloric acid.....	2823
241141	Northern mixed hardwoods.....	2611	281923	Hydrofluoric acid.....	2911
241143	Poplar (aspen and popple).....	2611		Chemical nitrogenous	
241145	Southern mixed hardwoods.....	2611	281935	Ammonium nitrate.....	2871, 2872
241149	Other hardwoods.....	2611	281941	Ammoniating or nitrogen solutions.....	2871, 2872
	Rough lumber:		281945	Trisodium phosphate.....	2841, 2842
242111	Hardwood.....	2421, 2424, 2431, 2432, 2433, 2441, 2444, 2445, 2491, 2499, 2511, 2512, 2514, 2515, 2521, 2522, 2531, 2532, 2541, 2591, 3988	281951	Tetrasodium pyrophosphate.....	2841, 2842
	Softwood.....	2421, 2424, 2431, 2432, 2433, 2441, 2444, 2445, 2491, 2499, 2511, 2512, 2514, 2515, 2522, 2532, 2541, 2591, 3988	281955	Sodium tripolyphosphate.....	2841, 2842
	Dressed lumber:			Chemical nitrogenous	
242121	Hardwood.....	2421, 2431, 2432, 2433, 2441, 2443, 2444, 2445, 2499, 2511, 2512, 2514, 2515, 2522, 2531, 2541, 2591, 3988	281961	Nitrate of soda.....	2871, 2872
	Softwood.....	2421, 2431, 2432, 2433, 2441, 2443, 2444, 2445, 2499, 2511, 2512, 2514, 2515, 2522, 2531, 2541, 2561, 2591, 3988	281965	Sulfate of ammonia.....	2871, 2872
242125			281975	Calcium cyanamide.....	2871, 2872
242131	Rough, surfaced or semifabricated hardwood dimension.....	2499, 2511, 2512, 2531	281991	Phosphoric acid transferred or purchased and used in the manufacture of superphosphate.....	2871
	Slabs, chips and mill waste		282111	Creosote oil.....	2491
242171	Softwood.....	2611	282131	Tar oil, crude.....	2822
242175	Hardwood.....	2611, 2861	282151	Naphthalene, grades of 77.5° C or higher...	2819, 2822, 2829
	Container and flat veneer		282211	Aniline.....	2819, 2822, 2829
242211	Hardwood.....	2432, 2441, 2443, 2444	282221	Chlorobenzene.....	2819, 2822, 2829
242215	Softwood.....	2432, 2441, 2443, 2444	282241	Nitrobenzene.....	2822
	Veneer (other than container and flat)		282251	Phenol.....	2819, 2822, 2823, 2829
242231	Hardwood.....	2422, 2431, 2432, 2433, 2443, 2444, 2511, 2521, 2531, 2541	282261	Phthalic anhydride.....	2819, 2822, 2823, 2829
	Softwood.....	2431, 2432, 2433, 2443, 2444, 2511	282271	Styrene.....	2823, 2824
242235			282321	Vinyl resins.....	2274
	Plywood, hardwood		282331	Thermoplastics (cellulosics, vinyls, acrylic, polyamides, polyethylene, etc.)...	3971
243211	Veneer core.....	2431, 2432, 2433, 2444, 2511, 2512, 2514, 2521, 2531, 2541, 2591	282341	Thermosetting plastics (phenolics, urea, melamines, etc.).....	3971
243213	Lumber core.....	2431, 2432, 2433, 2444, 2511, 2512, 2521, 2531, 2541, 2591	282351	Plastics materials (nonelastomers) (dry basis).....	3011, 3021, 3031, 3099
243215	Plywood, softwood.....	2431, 2432, 2433, 2444, 2511, 2512, 2514, 2541, 2591	282361	Plastic sheet and film, including cellophane and pliofilm.....	2641, 2651, 2661, 2671, 2674, 2691, 2694, 2699
251211	Furniture parts, wood (including frames)...	2511, 2512, 2514, 2515	282371	Pyroxylin.....	2295
261131	Cotton pulp (purified linters).....	2825, 2826	282911	Acetic anhydride.....	2825
261171	Tall oil.....	2274		Alcohol:	
	Wood Pulp:		282921	Ethyl, pure.....	2819, 2829, 2834
261181	Bleached sulfite.....	2612, 2613	282923	Ethyl, denatured.....	2819, 2822, 2823, 2829, 2834, 2893
261182	Unbleached sulfite.....	2612, 2613	282925	Amyl, butyl, methyl and propyl.....	2819, 2822, 2823, 2829, 2834
261183	Bleached sulfate, softwood.....	2612, 2613	282935	Carbon disulfide.....	2825
261184	Bleached sulfate, hardwood.....	2612, 2613	282937	Cellulose acetate.....	2823
261185	Semibleached sulfate.....	2612, 2613	282945	Ethylene glycol.....	2819, 2822
261186	Unbleached sulfate.....	2612, 2613	282955	Maleic anhydride.....	2823
261187	Groundwood.....	2612, 2613	282965	Urea.....	2823
261188	Semichemical.....	2612, 2613	282971	Bulk surface active agents other than detergents (emulsifiers, wetting agents, penetrants, etc.).....	2841, 2842
261189	Soda, defibrated or exploded and screenings.....	2612, 2613	283311	Vitamin B-12 and antibiotic supplements....	2041, 2042
269911	Paper yarns.....	2271, 2273	284111	Glycerine.....	2823, 2826
	Other chemical nitrogenous materials:		284151	Soap.....	2841, 2842
280011	Containing nitrogen and phosphorus.....	2871, 2872	284211	Bulk surface active agents, primarily for detergent purposes.....	2841, 2842
280021	Containing nitrogen and potassium (includes potassium nitrate).....	2871, 2872	285271	Litharge.....	3691
280031	Containing nitrogen only.....	2871, 2872	287111	Ammonium nitrate and limestone mixtures (calnitro, ANL, etc.).....	2871, 2872
				Superphosphate:	
			287121	Normal (22% A.P.A. and less).....	2871, 2872
			287126	Enriched (over 22% and under 40% A.P.A.)..	2871, 2872
			287131	Concentrated (40% A.P.A. and over).....	2871, 2872
			287141	Wet base goods.....	2871, 2872
			287151	Concentrated superphosphate transferred or purchased and used in the manufacture of ordinary (normal) superphosphate.....	2871
			288011	Fats and oils, all types (purchased as such)	2041, 2042, 2045
			288111	Cottonseed cake and meal.....	2041, 2042, 2871
			288211	Linseed oil, crude.....	2274

ADDITIONAL MATERIALS FOR WHICH CONSUMPTION DATA ARE SHOWN IN THE CENSUS OF MANUFACTURES, VOLUME II, "INDUSTRY STATISTICS"—Continued

Materials code	Material	Consuming industries	Materials code	Material	Consuming industries
288311	Soybean cake and meal.....	2041, 2042	333511	Magnesium and magnesium-base alloys refinery shapes (pig, ingot, etc.).....	3321, 3352, 3359, 3361
288411	Other oil cake and meal.....	2041, 2042			
	Asphalt:				
291111	Less than 200 penetration.....	2951, 2952, 2999	333513	Magnesium and magnesium-base alloys: Powder.....	1900
291115	200 and over penetration.....	2951, 2952, 2999	333515	All other shapes and forms.....	1900
291151	Petroleum wax.....	2641, 2651, 2661, 2671, 2674, 2691, 2694, 2699	333521	Refined magnesium.....	3341
291165	Butadiene.....	2823	333911	Refined tin.....	3341
291171	Liquefied petroleum gases.....	2824	333921	Cobalt.....	3312
293221	Benzol (benzene) (100% C ₆ H ₆).....	2911			
293231	Benzol (benzene).....	2812, 2819, 2822, 2829			
301111	Tires.....	3521, 3522	335151	Rods: Copper, unalloyed.....	3392, 3631
301115	Inner tubes.....	3521, 3522	335155	Copper-base alloy.....	3392, 3631
321111	Plate glass.....	3231			
321131	Sheet glass.....	3231	335251	Aluminum and aluminum-base alloy rods.....	3392
322911	Glass yarns.....	2234, 2241	335911	Nickel and nickel-base alloy mill shapes and forms.....	3662
331251	Pig iron.....	1900, 3312, 3321, 3322, 3323, 3361, 3431, 3439, 3441, 3443, 3519, 3521, 3522, 3531, 3532, 3541, 3542, 3551, 3552, 3553, 3554, 3555, 3559, 3561, 3562, 3563, 3565, 3566, 3591, 3611, 3641, 3717, 3731, 3741, 3742	335915	Zinc and zinc-base alloy mill shapes and forms.....	3692
			335921	Nickel refinery shapes (ingot, pig, etc.)...	3312, 3359
			335955	Other nonferrous metal mill shapes for drawing wire.....	3392
			335971	Antimonial lead.....	3691
	Rods:			Wire for redrawing:	
331261	Carbon steel.....	3392	339217	Copper and copper-base alloy.....	3392
331263	Alloy steel (except stainless).....	3392	339227	Aluminum and aluminum-base alloy.....	3392
331265	Stainless steel.....	3392	339239	Other nonferrous wire.....	3392
	Bars:		348911	Springs and spring units.....	2511, 2512, 2514, 2515
331267	Carbon steel.....	3392	349711	Aluminum foil, plain (under 0.006").....	3497
331269	Alloy steel (except stainless).....	3392	361211	Carbon and graphite electrodes and other carbon and graphite products for electrical use.....	3692
	Wire for redrawing:		366231	Radio- and television-type tubes and other electron tubes (except X-ray).....	3613, 3811, 3821
331273	Carbon steel.....	3392	369111	Storage batteries.....	3565
331275	Alloy steel (except stainless).....	3392	383111	Photographic and projection lenses and prisms.....	3861
331277	Stainless steel.....	3392			
331279	Other steel mill shapes for drawing wire..	3392			
331281	Steel rolls for rerolling.....	3312			
				Iron and Steel scrap:	
	Nonferrous metals, alloys, and ferroalloys (ingot, pig, shot, etc.)		941011	Purchased.....	1900, 3311, 3312, 3313, 3321, 3322, 3323, 3361, 3431, 3439, 3441, 3443, 3519, 3521, 3522, 3531, 3532, 3541, 3542, 3551, 3552, 3553, 3554, 3559, 3561, 3562, 3563, 3565, 3566, 3591, 3611, 3717, 3731, 3741, 3742
331311	Ferromanganese.....	3312, 3321, 3322, 3323, 3361			
331312	Spiegeleisen.....	3312, 3321, 3323			
331313	Ferromolybdenum.....	3312			
331314	Ferrosilicon (over 6% silicon).....	3312			
331315	Ferrotungsten.....	3312			
331316	Ferrochromium.....	3312			
331317	Ferrotantalum-columbium.....	3312			
331318	Other ferroalloys.....	3312, 3321, 3322, 3323, 3361			
			941041	Nonferrous metal scrap (purchased)	
			941051	Magnesium and magnesium-base alloy.....	3361
			941061	Zinc and zinc-base alloy.....	3333, 3341, 3351, 3361
			941071	Lead and lead-base alloy scrap.....	3341
				Tin plate scrap.....	3341
333117	Copper: Blister or anode copper.....	3331			
333211	Lead and lead-base alloy refinery shapes, pig, ingot, etc.....	3351	941253	Other fibrous materials (rags, straw, bagasse, etc.).....	2612, 2613
			941260	Waste paper.....	2612, 2613, 2694, 2699
			941270	Other fibrous materials (rags, straw, etc.)..	2612, 2613
333213	Lead: Refined lead.....	3341, 3691	941291	Crank case drainings and other used oils consumed for refining and reclaiming.....	2911
333221	Matte, speiss, etc.....	3322			

CHAPTER XI
INDUSTRY SPECIALIZATION OF
ESTABLISHMENTS

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Industry Specialization of Establishments

While some establishments produce only the primary products of the industry in which they are classified, it rarely happens that all the establishments in an industry specialize to this extent (see Introduction, Industry Classification of Establishments). Establishments specializing to varying degrees in the primary products of their industry may differ in important characteristics such as the ratio of cost of materials consumed or payrolls to value of shipments. The statistics shown in the following table permit comparisons of such differences.

The extent to which an establishment specializes in the primary products of its industry is measured by the ratio of its primary products shipments to its total shipments of all products, primary plus secondary. An establishment's receipts for contract and commission work as well as other miscellaneous receipts such as sales of scrap are not included in this computation. Establishments classified in a given industry are then grouped into four classes according to their degree of specialization: 90 percent or more, 75 to 89 percent, 50 to 74 percent, and all other. For each of these classes within an industry, statistics are shown for number of establishments; total number of employees and their payrolls; number, man-hours, and wages of production workers; value added by manufacture; cost of materials, parts, components, supplies, fuel, electricity, and contract work; and value of shipments.

It should be noted that the statistics shown for a group of specialized establishments reflect not only their primary activities but also their activities in the manufacture of secondary products and their miscellaneous receipts (contract work on materials owned by others, repair work, sales of scrap, etc.). For example, for the 45 establishments in Industry 2011 with 75 to 89 percent specialization in meat packing plant products, total shipments amounted to \$30,901 thousand, which includes, in addition to meats, products classified in other industries (e.g., grease and tallow, dog and cat food, shortenings, and salad oils) and sales of scrap. Similarly, the other statistics shown for this group of establishments represent their total activities.

In addition to data for specialized establishments, statistics are also shown for each industry as a whole for comparison purposes.

The proportion of the total industry represented by the specialized establishments should be considered in the analytical use of the statistics.

Since the establishments classified in an industry were grouped into specialization ranges entirely on the basis of the proportion of primary product to total product shipments, a particular group of specialized establishments may not be homogeneous in such important respects as types of production processes used, extent of integration of those processes, kinds of materials consumed, etc. An example of diversity in type of operations is found in many of the metal fabricating industries where plants that produce final products may operate a wide variety of captive metal processing departments (e.g., foundry, machine shop) or may be merely engaged in the assembly of component parts purchased from other manufacturers. Differences in statistical ratios, such as payrolls to shipments, between groups of specialized establishments in an industry are as likely to result from this kind of diversity as from differences in the degree of specialization in the primary products of the industry.

Not all industries are included in the table. Those in which shipments of secondary products represent less than 10 percent of the total products shipments of all establishments in the industry are generally omitted since the statistics for the specialized establishments would be approximately the same as those for the industry. In addition, data for some industries as well as particular specialization ranges within an industry have been omitted for various reasons, principally to avoid disclosing individual company figures.

For many of the industries, additional statistics are provided in the 1954 Census of Manufactures Industry Bulletins, Table 3, for establishments specializing 90 percent or more in the primary products of this industry. Industry Bulletin Table 8 provides data for establishments grouped according to the extent of specialization in individual classes of products as well as in all primary products of the industry; the specialization calculation for individual product classes is based on the ratio of the largest single product class of the establishment to its total of primary and secondary products.

MANUFACTURES—SUMMARY STATISTICS

GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY INDUSTRY SPECIALIZATION
FOR THE UNITED STATES: 1954

(This table presents selected statistics for establishments classified according to their degree of specialization in products primary to the industry. The degree of "industry specialization" for an establishment is expressed by the ratio of its primary product shipments to its total product shipments, primary and secondary. Data are not shown for some industries and specialization ranges for a variety of reasons; consequently, detailed figures frequently do not add to the totals. See Introduction for further explanation)

Ind. code	Industry by percent of specialization	Estab- lish- ments, number	All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
2011	MEAT PACKING PLANTS (entire industry).....	2,367	220,194	942,970	167,815	354,779	687,878	1,394,486	8,511,201	9,905,687
	Establishments with:									
	90% or more specialization.....	2,095	216,117	928,144	164,540	348,039	676,568	1,360,630	8,443,890	9,804,519
	75-89% specialization.....	45	961	3,366	745	1,551	2,537	7,537	23,363	30,901
	50-74% specialization.....	23	975	3,944	760	1,676	2,918	5,767	12,931	18,698
	All other ¹	204	2,139	7,515	1,768	3,511	5,853	20,551	31,016	51,568
2013	PREPARED MEATS (entire industry).....	1,316	44,997	186,939	33,767	70,034	124,327	330,312	1,085,069	1,415,382
	Establishments with:									
	90% or more specialization.....	983	29,324	122,864	22,230	46,238	81,877	218,347	624,624	842,973
	75-89% specialization.....	76	5,785	23,608	4,286	8,897	15,511	44,390	143,478	187,869
	50-74% specialization.....	105	6,498	27,820	4,579	9,432	17,804	45,930	212,545	258,475
	All other ¹	152	3,389	12,645	2,670	5,465	9,132	21,642	104,419	126,063
2015	POULTRY DRESSING PLANTS (entire industry).....	1,309	46,173	104,706	41,551	79,530	86,459	206,175	1,051,718	1,257,892
	Establishments with:									
	90% or more specialization.....	1,185	37,951	85,547	34,276	65,470	71,231	171,283	891,449	1,062,732
	75-89% specialization.....	49	4,179	9,356	6,991	7,350	18,233	80,629	98,863	98,863
	50-74% specialization.....	41	2,971	7,423	2,662	5,269	6,049	14,488	62,872	77,361
	All other ¹	34	1,071	2,379	936	1,799	1,829	2,169	16,766	18,936
2021	CREAMERY BUTTER (entire industry).....	1,262	21,019	65,601	15,060	32,756	42,920	136,953	789,465	926,414
	Establishments with:									
	90% or more specialization.....	767	6,492	19,353	4,734	10,200	13,020	45,391	307,733	353,121
	75-89% specialization.....	180	2,587	7,473	1,842	4,006	4,769	15,779	93,866	109,645
	50-74% specialization.....	244	6,695	21,066	4,863	10,810	13,997	43,518	230,075	273,594
	All other ¹	71	5,245	17,708	3,620	7,738	11,132	32,264	157,789	190,054
2022	NATURAL CHEESE (entire industry).....	1,419	13,914	42,363	11,343	25,672	32,826	88,716	462,443	551,159
	Establishments with:									
	90% or more specialization.....	1,035	6,945	19,780	5,703	12,397	15,560	41,388	240,918	282,306
	75-89% specialization.....	268	3,805	12,213	3,145	7,320	9,437	24,600	124,841	149,441
	50-74% specialization.....	96	2,543	8,329	2,015	4,818	6,351	19,107	79,322	98,429
	All other ¹	20	619	2,040	479	1,136	1,476	3,619	17,362	20,982
2023	CONCENTRATED MILK (entire industry).....	359	13,310	50,513	10,900	24,583	39,338	170,566	517,646	688,212
	Establishments with:									
	90% or more specialization.....	216	5,667	20,716	4,753	10,648	16,713	80,670	215,116	295,786
	75-89% specialization.....	67	3,946	15,372	3,271	7,380	12,077	55,199	160,198	215,398
	50-74% specialization.....	55	2,396	9,280	1,982	4,604	7,348	24,318	92,523	116,842
	All other ¹	21	1,300	5,143	892	1,950	3,199	10,377	49,808	60,186
2024	ICE CREAM AND ICES (entire industry).....	1,587	36,488	134,171	20,982	42,422	64,193	327,898	399,534	727,433
	Establishments with:									
	90% or more specialization.....	1,326	29,258	109,562	16,761	33,525	51,727	272,226	314,711	586,939
	75-89% specialization.....	77	2,064	7,359	1,202	2,474	3,607	16,605	23,239	39,844
	50-74% specialization.....	144	3,634	12,405	2,136	4,527	6,358	28,506	42,927	71,433
	All other ¹	40	1,530	4,844	882	1,895	2,499	10,559	18,656	29,216
2025	SPECIAL DAIRY PRODUCTS (entire industry).....	187	7,300	26,595	5,847	11,701	20,050	56,965	238,372	295,337
	Establishments with:									
	90% or more specialization.....	137	5,370	19,724	4,308	8,400	15,102	37,387	188,451	225,838
	75-89% specialization.....	12	780	2,816	603	1,340	1,920	10,762	19,012	29,775
	50-74% specialization.....	28	788	2,578	630	1,264	1,855	6,397	21,981	28,379
	All other ¹	10	362	1,477	305	697	1,172	2,417	8,926	11,344
2026	FLUID MILK (entire industry).....	1,695	14,086	48,085	9,074	(2)	27,692	98,940	253,827	352,767
	Establishments with:									
	90% or more specialization.....	1,608	13,618	46,554	8,702		26,520	95,726	248,410	344,137
2027	FLUID MILK OTHER PRODUCTS (entire industry).....	4,994	177,311	718,960	79,987	176,922	280,142	1,376,698	2,857,296	4,233,983
	Establishments with:									
	90% or more specialization.....	2,786	65,615	274,054	29,540	62,961	105,055	520,187	1,079,504	1,599,692
	75-89% specialization.....	1,230	56,397	231,126	23,626	52,597	82,341	433,584	842,972	1,276,545
	50-74% specialization.....	837	47,701	186,059	22,459	51,339	77,860	361,685	773,880	1,135,565
	All other ¹	141	7,597	27,720	4,360	10,023	14,884	61,241	160,939	222,180
2033	CANNED FRUITS AND VEGETABLES, (entire industry).....	1,758	119,836	354,746	105,613	206,076	276,063	830,019	1,398,928	2,228,947
	Establishments with:									
	90% or more specialization.....	1,450	87,445	254,946	77,363	149,665	198,695	594,828	967,382	1,562,211
	75-89% specialization.....	117	15,265	46,158	13,667	27,166	37,300	101,209	196,273	297,483
	50-74% specialization.....	141	14,575	46,309	12,573	25,612	35,725	123,605	213,143	336,748
	All other ¹	50	2,549	7,332	2,008	3,631	4,343	10,375	22,128	32,504

See footnotes at end of table.

INDUSTRY SPECIALIZATION OF ESTABLISHMENTS

211-5

GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY INDUSTRY SPECIALIZATION
FOR THE UNITED STATES: 1954--Continued

Ind. code	Industry by percent of specialization	Estab- lish- ments, number	All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
2035	PICKLES AND SAUCES, (entire industry).....	717	21,895	67,084	18,230	35,977	47,594	140,925	340,582	481,507
	Establishments with:									
	90% or more specialization.....	582	13,133	38,125	11,244	21,932	27,958	70,051	189,304	259,355
	75-89% specialization.....	32	2,097	7,466	1,602	3,459	4,566	11,175	21,523	32,698
	50-74% specialization.....	83	5,186	16,476	4,276	8,469	11,937	45,337	96,965	142,303
	All other ¹	20	1,477	5,016	1,106	2,116	3,132	14,360	32,790	47,150
2036	PACKAGED SEAFOOD, (entire industry).....	295	12,200	27,190	11,232	18,779	21,549	45,657	118,968	164,625
	Establishments with:									
	90% or more specialization.....	264	10,149	22,282	9,356	15,929	17,445	38,469	99,499	137,969
	75-89% specialization.....	5	106	387	101	196	368	533	1,488	2,021
	50-74% specialization.....	17	1,696	3,997	1,552	2,293	3,326	5,665	17,215	22,881
	All other ¹	9	247	522	222	358	409	988	764	1,753
2037	FROZEN FRUITS AND VEGETABLES, (entire industry).....	266	21,436	59,238	18,638	36,104	45,879	148,517	268,623	417,140
	Establishments with:									
	90% or more specialization.....	212	13,949	38,068	12,427	23,926	30,448	98,891	166,658	265,549
	75-89% specialization.....	26	3,586	10,387	2,918	5,770	7,407	20,530	47,802	68,332
2041	FLOUR AND MEAL (entire industry).....	803	28,969	119,844	21,447	47,919	83,813	315,143	1,543,745	1,858,888
	Establishments with:									
	90% or more specialization.....	533	20,424	87,801	15,513	34,819	63,409	233,640	1,245,411	1,479,051
	75-89% specialization.....	77	3,154	12,435	2,302	4,923	8,496	32,954	125,843	158,797
	50-74% specialization.....	139	4,418	16,749	2,974	6,726	10,180	41,215	148,702	189,917
	All other ¹	54	972	2,858	656	1,450	1,727	7,332	23,789	31,122
2042	PREPARED ANIMAL FEEDS (entire industry).....	2,292	59,890	225,199	41,290	91,220	138,520	584,135	2,118,132	2,702,267
	Establishments with:									
	90% or more specialization.....	1,987	49,804	189,721	34,382	75,753	117,225	507,512	1,854,834	2,362,346
	75-89% specialization.....	110	3,550	12,249	2,501	5,719	7,436	21,069	93,488	114,557
	50-74% specialization.....	139	4,912	16,889	3,266	7,181	10,027	43,245	118,636	161,882
	All other ¹	56	1,623	6,330	1,139	2,566	3,829	12,307	51,175	63,482
2043	CEREAL PREPARATIONS (entire industry).....	46	11,534	51,002	9,149	18,211	38,062	172,283	173,559	345,843
	Establishments with:									
	90% or more specialization.....	31	7,284	32,779	5,692	11,089	23,802	116,841	83,246	200,088
2045	FLOUR MIXES (entire industry).....	131	5,585	25,446	4,366	8,834	16,982	103,134	151,001	254,136
	Establishments with:									
	90% or more specialization.....	90	2,190	8,579	1,666	3,131	5,168	34,875	57,776	92,651
	75-89% specialization.....	33	2,148	11,171	1,610	3,461	7,110	43,695	63,750	107,447
	All other ¹	8	1,247	5,696	1,089	2,241	4,702	24,562	29,474	54,037
2051	BREAD AND RELATED PRODUCTS (entire industry).....	6,103	246,337	973,546	143,077	293,871	477,972	1,568,933	1,498,088	3,067,017
	Establishments with:									
	90% or more specialization.....	5,976	235,073	935,248	134,665	277,557	452,332	1,506,578	1,423,573	2,930,148
	75-89% specialization.....	69	6,495	23,087	4,927	9,795	15,767	38,108	43,050	81,159
	50-74% specialization.....	45	4,356	14,043	3,184	5,866	9,156	22,134	29,077	51,211
	All other ¹	13	411	1,166	299	651	716	2,111	2,387	4,498
	WHOLESALE BAKERIES (entire industry).....	5,426	190,195	753,745	109,125	225,379	358,770	1,223,635	1,162,090	2,385,721
	Establishments with:									
	90% or more specialization.....	5,330	183,668	731,993	104,593	216,605	346,002	1,192,719	1,129,699	2,322,414
	75-89% specialization.....	47	3,268	11,658	2,365	4,789	7,189	16,247	15,359	31,607
	50-74% specialization.....	37	2,891	9,045	1,908	3,424	4,967	12,938	15,192	28,131
	All other ¹	12	366	1,046	256	557	609	1,729	1,838	3,568
	GROCERY CHAIN BAKERIES (entire industry).....	142	16,233	60,078	14,382	28,198	50,964	107,974	157,877	265,851
	Establishments with:									
	90% or more specialization.....	131	13,022	48,737	11,452	22,659	41,040	87,751	125,088	212,840
	HOUSE-TO-HOUSE BAKERIES (entire industry).....	217	28,094	120,962	11,434	23,922	40,594	175,517	122,033	297,551
	Establishments with:									
	90% or more specialization.....	206	26,881	116,838	10,751	22,474	38,570	167,214	115,693	282,908
	RETAIL MULTIOUTLET BAKERIES (entire industry).....	318	11,813	38,760	8,134	16,370	27,642	61,805	56,087	117,892
	Establishments with:									
	90% or more specialization.....	309	11,500	37,678	7,867	15,816	26,718	58,893	53,092	111,984
	75-89% specialization.....	5	189	709	180	369	676	2,196	1,911	4,108
2071	CONFECTIONERY PRODUCTS (entire industry).....	1,434	66,799	201,706	55,220	107,952	143,850	422,314	570,282	992,597
	Establishments with:									
	90% or more specialization.....	1,332	59,385	180,941	48,815	95,222	128,262	370,811	487,678	858,490
	75-89% specialization.....	43	3,865	10,231	3,419	6,711	8,014	24,941	47,911	72,852
	50-74% specialization.....	42	3,217	9,311	2,743	5,568	6,865	24,682	31,736	56,418
	All other ¹	17	331	1,222	241	449	707	1,880	2,956	4,837

See footnotes at end of table.

GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY INDUSTRY SPECIALIZATION
FOR THE UNITED STATES: 1954—Continued

Ind. code	Industry by percent of specialization	Estab- lish- ments, number	All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
2072	CHOCOLATE AND COCOA PRODUCTS (entire industry).....	28	8,465	33,133	6,677	13,503	23,219	81,745	351,096	432,842
	Establishments with:									
	90% or more specialization.....	24	7,788	30,492	6,162	12,419	21,542	74,153	330,031	404,185
2085	DISTILLED LIQUOR (entire industry).....	133	21,505	89,367	17,117	32,892	65,504	356,741	354,571	711,313
	Establishments with:									
	90% or more specialization.....	124	20,827	86,181	16,664	32,003	63,977	348,435	345,310	693,746
	75-89% specialization.....	4	474	2,459	340	698	1,211	7,143	6,574	13,717
2091	LEAVENING COMPOUNDS (entire industry).....	43	2,685	12,246	1,987	3,840	8,696	45,350	25,834	71,185
	Establishments with:									
	90% or more specialization.....	34	1,315	6,062	932	1,794	3,841	22,184	11,704	33,888
2092	SHORTENING AND COOKING OILS (entire industry).....	102	9,398	42,414	6,755	14,016	27,571	175,988	759,347	935,338
	Establishments with:									
	90% or more specialization.....	67	5,174	23,603	3,618	7,460	14,692	114,128	442,048	556,180
	75-89% specialization.....	10	1,082	4,619	808	1,700	3,055	16,715	81,998	98,713
	50-74% specialization.....	19	2,714	12,328	1,989	4,101	8,604	41,980	198,240	240,221
	All other ¹	6	427	1,863	339	755	1,219	3,164	37,059	40,224
2094	CORN WET MILLING (entire industry).....	58	13,565	60,030	10,584	21,008	43,172	176,696	281,746	458,442
	Establishments with:									
	90% or more specialization.....	49	12,941	57,286	10,125	20,018	41,345	170,412	270,563	440,976
	75-89% specialization.....	4	588	2,620	434	941	1,752	6,108	10,813	16,921
2095	FLAVORINGS (entire industry).....	558	10,593	45,060	6,543	12,402	20,308	219,445	226,611	446,056
	Establishments with:									
	90% or more specialization.....	438	5,955	25,054	3,830	7,022	11,452	158,975	144,957	303,932
	75-89% specialization.....	40	1,412	6,305	772	1,550	2,508	16,537	15,866	32,403
	50-74% specialization.....	64	2,947	12,712	1,760	3,475	5,847	42,231	63,040	105,271
	All other ¹	16	278	989	179	354	500	1,701	2,747	4,449
2099	FOOD PREPARATIONS, N.E.C. (entire industry).....	2,599	71,952	251,440	52,761	103,702	146,907	806,298	2,449,670	3,255,967
	Establishments with:									
	90% or more specialization.....	2,275	52,262	183,862	38,309	74,877	107,682	648,500	2,120,308	2,768,808
	75-89% specialization.....	123	5,466	17,833	4,035	7,815	10,739	49,115	123,266	172,381
	50-74% specialization.....	150	10,058	35,569	7,532	15,662	21,261	77,862	164,115	241,978
	All other ¹	51	4,164	14,174	2,884	5,346	7,223	30,820	41,978	72,799
2213	WOOLEN AND WORSTED FABRICS (entire industry).....	343	62,466	214,246	55,702	111,650	174,696	315,706	574,576	890,281
	Establishments with:									
	90% or more specialization.....	272	41,273	144,102	36,940	73,798	116,484	220,388	377,235	597,623
	75-89% specialization.....	14	9,711	32,359	8,673	17,341	27,088	43,385	107,219	150,604
	50-74% specialization.....	13	6,425	21,618	5,588	11,162	17,704	29,502	42,901	72,403
	All other ¹	44	5,056	16,167	4,500	9,349	13,420	22,429	47,221	69,650
2223	THREAD MILLS (entire industry).....	97	13,908	38,281	12,221	22,807	29,267	62,694	121,052	183,746
	Establishments with:									
	90% or more specialization.....	81	9,412	25,642	8,418	15,700	20,140	42,649	79,290	121,940
	75-89% specialization.....	5	2,006	5,694	1,789	3,454	4,488	7,205	16,775	23,980
2224	YARN MILLS, COTTON SYSTEM (entire industry).....	357	85,275	197,292	80,944	144,959	175,558	298,833	731,793	1,030,627
	Establishments with:									
	90% or more specialization.....	295	65,742	151,879	62,548	111,631	135,488	232,829	598,579	831,409
	75-89% specialization.....	15	8,680	19,560	8,195	14,442	17,261	30,803	75,629	106,433
	50-74% specialization.....	14	6,877	17,103	6,436	11,939	15,059	21,417	39,426	60,843
	All other ¹	33	3,975	8,749	3,764	6,946	7,750	13,783	18,158	31,941
2233	COTTON BROAD-WOVEN FABRICS (entire industry).....	582	296,193	783,011	280,546	537,531	702,649	1,127,507	1,662,114	2,789,621
	Establishments with:									
	90% or more specialization in gray goods ³	430	182,347	477,615	174,045	335,919	434,597	658,276	1,012,035	1,670,312
2234	SYNTHETIC BROAD-WOVEN FABRICS (entire industry).....	478	89,994	272,872	83,120	166,984	234,476	422,765	719,864	1,142,629
	Establishments with:									
	90% or more specialization in gray goods ³	298	46,693	140,555	43,425	87,116	121,835	220,871	404,663	625,535
2241	NARROW FABRIC MILLS (entire industry).....	513	25,676	79,063	22,862	44,962	61,456	121,547	128,615	250,162
	Establishments with:									
	90% or more specialization.....	457	21,521	65,465	19,199	37,873	51,336	101,413	105,467	206,880
	75-89% specialization.....	16	2,576	8,255	2,336	4,601	6,376	11,081	15,583	26,665
	50-74% specialization.....	13	860	3,642	688	1,362	2,388	6,530	6,201	12,732
	All other ¹	27	719	1,700	638	1,125	1,355	2,522	1,361	3,884
2251	FULL FASHIONED HOSIERY MILLS (entire industry).....	789	60,150	178,454	55,023	101,925	151,619	266,993		
	Establishments with:									
	90% or more specialization.....	657	48,059	144,986	43,819	81,194	123,635	216,546	(4)	(4)
	75-89% specialization.....	12	3,594	10,931	3,318	5,886	9,097	19,656		
	50-74% specialization.....	15	2,327	6,768	2,105	4,075	5,538	11,196		
	All other ¹	105	6,169	15,768	5,779	10,768	13,347	19,593		

See footnotes at end of table.

GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY INDUSTRY SPECIALIZATION
FOR THE UNITED STATES: 1954--Continued

Ind. code	Industry by percent of specialization	Estab- lish- ments, number	All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
2252	SEAMLESS HOSIERY MILLS (entire industry).....	609	63,350	135,481	59,656	105,905	117,455	202,477	226,773	429,251
	Establishments with:									
	90% or more specialization.....	545	54,576	116,528	51,348	90,736	101,144	178,281	198,367	376,648
	75-89% specialization.....	8	3,517	6,991	3,361	6,036	6,133	8,014	8,921	16,936
	50-74% specialization.....	16	3,921	9,313	3,674	6,931	7,788	12,779	17,990	30,770
	All other ¹	40	1,335	2,649	1,271	2,201	2,389	3,402	1,493	4,896
2253 Pt. A	KNIT OUTERWEAR MILLS "MANUFACTURERS" ⁵ (all estab- lishments).....	550	30,052	87,659	26,854	49,715	66,726	134,454	164,284	298,739
	Establishments with:									
	90% or more specialization.....	436	22,169	67,325	19,816	36,623	51,364	104,763	123,692	228,456
	75-89% specialization.....	25	2,124	5,409	1,938	3,585	4,287	8,544	10,078	18,623
	50-74% specialization.....	22	4,475	11,812	3,943	7,295	8,579	16,180	22,877	39,058
	All other ⁶	67	1,283	3,112	1,156	2,211	2,495	4,966	7,635	12,601
2256 Pt. A	KNIT FABRIC MILLS "MANUFACTURERS" ⁵ (all estab- lishments).....	234	12,218	40,744	10,739	21,611	31,362	81,739	206,500	288,239
	Establishments with:									
	90% or more specialization.....	191	8,648	30,178	7,570	15,529	22,917	61,830	169,362	231,191
	75-89% specialization.....	4	519	1,663	455	929	1,488	2,312	3,968	6,281
	50-74% specialization.....	12	2,649	7,787	2,352	4,459	6,092	16,032	26,897	42,929
	All other ⁶	27	402	1,115	360	693	865	1,565	6,271	7,837
2259	KNITTING MILLS, N.E.C. (entire industry).....	46	1,359	3,950	1,167	2,218	2,846	7,059	8,746	15,805
	Establishments with:									
	90% or more specialization.....	31	558	1,687	472	903	1,150	3,563	4,017	7,581
2271	WOOL CARPETS AND RUGS (entire industry).....	98	30,076	111,009	25,336	48,852	86,199	191,409	(⁴)	(⁴)
	Establishments with:									
	90% or more specialization.....	73	25,578	94,778	21,633	41,840	74,101	166,965	(⁴)	(⁴)
2273	CARPETS AND RUGS, EXCEPT WOOL (entire industry).....	213	11,479	30,735	10,178	19,862	23,085	67,110	107,900	175,010
	Establishments with:									
	90% or more specialization.....	177	8,361	21,853	7,516	14,786	16,865	48,408	85,116	133,525
	75-89% specialization.....	6	1,462	4,789	1,211	2,392	3,223	10,947	14,610	25,557
	50-74% specialization.....	10	915	1,999	814	1,314	1,482	3,966	6,150	10,117
	All other ¹	20	741	2,094	636	1,369	1,513	3,788	2,022	5,810
2282	WOOL-FELT HATS AND HAT BODIES (entire industry).....	32	1,750	4,951	1,552	2,809	3,862	7,250	6,308	13,559
	Establishments with:									
	90% or more specialization.....	24	779	2,180	691	1,227	1,685	3,170	2,912	6,082
2283	STRAW HATS (entire industry).....	48	2,294	6,262	1,992	4,103	5,252	11,573	10,897	22,470
	Establishments with:									
	90% or more specialization.....	34	1,347	4,033	1,158	2,297	2,962	7,228	7,007	14,236
	75-89% specialization.....	4	147	327	139	272	301	310	554	865
	50-74% specialization.....	5	646	1,305	558	1,259	1,577	3,279	3,180	6,460
	All other ¹	5	153	596	136	274	411	753	154	908
2291	FELT GOODS, N.E.C. (entire industry).....	72	5,987	23,376	5,182	10,767	18,083	41,656	51,275	92,931
	Establishments with:									
	90% or more specialization.....	59	4,034	17,057	3,433	7,264	13,085	30,016	36,374	66,391
	75-89% specialization.....	5	424	1,937	348	759	1,379	2,932	4,530	7,463
	50-74% specialization.....	4	619	2,100	523	1,026	1,637	4,554	7,138	11,692
	All other ¹	4	909	2,281	877	1,717	1,981	4,152	3,232	7,385
2292	LACE GOODS (entire industry).....	138	7,442	26,117	6,568	12,521	20,492	37,734	22,061	59,795
	Establishments with:									
	90% or more specialization.....	99	5,882	21,780	5,233	10,048	17,131	30,642	18,223	48,866
2294	PROCESSED TEXTILE WASTE (entire industry).....	203	5,768	17,570	4,856	10,142	12,717	30,723	54,299	85,023
	Establishments with:									
	90% or more specialization.....	154	4,324	13,326	3,583	7,472	9,507	22,170	43,113	65,284
2295	COATED FABRIC, EXCEPT RUBBERIZED (entire industry)....	106	8,547	41,699	6,576	14,711	27,386	80,294	132,016	212,310
	Establishments with:									
	90% or more specialization.....	59	4,218	20,854	3,270	7,357	13,840	41,330	74,430	115,761
	75-89% specialization.....	12	2,196	10,506	1,600	3,390	6,656	21,340	30,204	51,545
	50-74% specialization.....	9	1,428	7,410	1,164	2,709	4,889	12,630	19,413	32,044
	All other ¹	26	704	2,928	541	1,253	2,000	4,992	7,967	12,960
2298	CORDAGE AND TWINE (entire industry).....	137	12,327	37,374	10,709	20,568	28,128	77,298	82,649	159,948
	Establishments with:									
	90% or more specialization.....	105	7,339	23,562	6,245	12,132	17,053	51,400	56,992	108,393
	75-89% specialization.....	13	2,410	6,190	2,230	4,134	5,183	13,866	11,904	25,771
	50-74% specialization.....	11	2,123	5,928	1,869	3,620	4,733	9,143	11,380	20,524
	All other ¹	8	453	1,693	364	680	1,157	2,888	2,371	5,259

See footnotes at end of table.

MANUFACTURES—SUMMARY STATISTICS

GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY INDUSTRY SPECIALIZATION
FOR THE UNITED STATES: 1954—Continued

Ind. code	Industry by percent of specialization	Estab- lish- ments, number	All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
2299	TEXTILE GOODS, N.E.C. (entire industry).....	108	8,975	29,106	7,736	14,888	21,116	54,115	67,488	121,603
	Establishments with:									
	90% or more specialization.....	81	4,233	13,024	3,739	7,014	9,349	27,734	37,655	65,390
	75-89% specialization.....	7	1,746	6,188	1,387	2,717	3,916	9,556	10,584	20,140
	50-74% specialization.....	12	2,205	7,106	1,944	3,874	5,737	12,249	16,165	28,414
	All other ¹	8	791	2,787	665	1,282	2,113	4,575	3,083	7,658
2311 Pt.A	MEN'S AND BOYS' SUITS AND COATS "MANUFACTURERS" ⁵ (all establishments).....	440	67,795	219,556	60,449	109,125	174,429	309,702	300,237	609,940
	Establishments with:									
	90% or more specialization.....	324	49,328	164,552	43,883	79,244	130,005	224,731	218,952	443,684
	75-89% specialization.....	53	10,659	33,081	9,581	17,323	27,124	51,473	48,934	100,407
	50-74% specialization.....	43	3,334	9,801	2,853	5,169	7,596	17,055	13,691	30,747
	All other ⁶	20	4,473	12,121	4,130	7,388	9,703	16,442	18,659	35,102
2311 Pt.B	MEN'S AND BOYS' SUITS AND COATS "JOBBER" ⁵ (all establishments).....	365	7,673	35,507	4,772	8,083	15,791	82,261	278,891	361,153
	Establishments with:									
	90% or more specialization.....	294	5,547	26,790	3,565	5,878	12,041	57,974	212,016	269,991
	75-89% specialization.....	37	1,181	4,866	566	1,098	1,640	13,092	38,822	51,914
	50-74% specialization.....	25	823	3,287	578	997	1,859	9,638	22,104	31,743
	All other ⁶	9	121	563	63	109	251	1,555	5,948	7,504
2321 Pt.A	MEN'S DRESS SHIRTS AND NIGHTWEAR "MANUFACTURERS" ⁵ (all establishments).....	389	50,752	117,025	46,370	83,943	96,809	196,318	233,754	430,072
	Establishments with:									
	90% or more specialization.....	322	39,462	90,077	36,316	65,812	75,537	157,185	182,351	339,537
	75-89% specialization.....	20	3,466	8,849	3,096	5,469	6,871	15,052	17,261	32,313
	50-74% specialization.....	37	6,905	15,908	6,116	11,038	12,693	21,194	32,410	53,605
	All other ⁶	10	919	2,191	841	1,623	1,708	2,886	1,730	4,617
2321 Pt.B	MEN'S DRESS SHIRTS AND NIGHTWEAR "JOBBER" ⁵ (all establishments).....	193	6,434	20,436	4,846	7,054	9,062	52,969	235,555	288,525
	Establishments with:									
	90% or more specialization.....	169	4,252	13,775	3,172	4,260	5,655	33,133	163,598	196,733
	75-89% specialization.....	11	786	2,997	568	849	1,130	4,963	19,066	24,029
	50-74% specialization.....	10	940	2,794	696	1,277	1,632	12,829	39,593	52,423
	All other ⁶	3	454	869	408	667	644	2,043	13,296	15,339
2322 Pt.A	MEN'S AND BOYS' UNDERWEAR "MANUFACTURERS" ⁵ (all establishments).....	49	6,456	13,406	6,070	10,508	11,710	23,329	36,090	59,420
	Establishments with:									
	90% or more specialization.....	30	4,417	9,538	4,121	7,183	8,309	17,361	25,066	42,428
	75-89% specialization.....	5	341	742	330	563	618	1,307	1,724	3,031
	50-74% specialization.....	10	973	1,680	935	1,442	1,518	2,258	4,794	7,052
	All other ⁶	4	725	1,446	683	1,318	1,264	2,402	4,505	6,908
2327 Pt.A	SEPARATE TROUSERS "MANUFACTURERS" ⁵ (all establish- ments).....	212	21,938	51,749	20,197	36,826	41,333	81,435	103,513	184,948
	Establishments with:									
	90% or more specialization.....	155	14,852	34,810	13,838	25,200	28,266	57,418	73,531	130,950
	75-89% specialization.....	13	914	1,915	827	1,524	1,558	2,399	3,176	5,576
	50-74% specialization.....	28	4,667	10,910	4,200	7,633	8,513	15,142	20,117	35,259
	All other ⁶	16	1,504	4,113	1,331	2,467	2,995	6,474	6,687	13,162
2327 Pt.B	SEPARATE TROUSERS "JOBBER" ⁵ (all establishments).....	169	2,826	8,983	2,086	3,453	4,501	22,978	85,290	108,269
	Establishments with:									
	90% or more specialization.....	136	1,705	6,238	1,098	1,756	2,466	16,271	64,225	80,497
	75-89% specialization.....	11	190	695	132	186	297	1,756	4,952	6,709
	50-74% specialization.....	14	496	1,101	447	747	883	3,068	7,605	10,674
	All other ⁶	8	434	949	409	762	854	1,881	8,507	10,389
2329 Pt.A	MEN'S AND BOYS' CLOTHING, N.E.C. "MANUFACTURERS" ⁵ (all establishments).....	694	61,999	140,340	55,821	99,586	110,137	217,421	329,281	546,702
	Establishments with:									
	90% or more specialization.....	421	27,047	61,095	24,659	43,610	49,476	99,508	143,752	243,261
	75-89% specialization.....	93	11,397	25,353	10,287	18,080	20,042	40,001	57,138	97,140
	50-74% specialization.....	150	20,798	47,600	18,373	33,255	35,692	70,596	115,442	186,038
	All other ⁶	30	2,757	6,291	2,500	4,640	4,926	7,314	12,948	20,263
2329 Pt.B	MEN'S AND BOYS' CLOTHING, N.E.C. "JOBBER" ⁵ (all establishments).....	96	4,532	12,357	3,515	6,121	6,965	43,676	130,496	174,172
	Establishments with:									
	90% or more specialization.....	49	675	2,687	457	812	1,211	5,407	23,242	28,650
	75-89% specialization.....	14	1,691	3,440	1,526	2,447	2,470	8,176	33,209	41,385

See footnotes at end of table.

INDUSTRY SPECIALIZATION OF ESTABLISHMENTS

211-9

GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY INDUSTRY SPECIALIZATION
FOR THE UNITED STATES: 1954--Continued

Ind. code	Industry by percent of specialization	Estab- lish- ments, number	All employees		Production workers			Value added by manufacture	Cost of materials, etc.	Value of shipments
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
2334- Pt.A	WOMEN'S, MISSES', JUNIORS' DRESSES, DOZEN PRICE "MANUFACTURERS" ⁵ (all establishments).....	441	26,718	66,983	23,465	42,694	48,962	113,838	119,163	233,002
	Establishments with:									
	90% or more specialization.....	341	19,973	50,026	17,558	31,842	36,767	85,114	89,877	174,992
	75-89% specialization.....	37	2,296	5,362	2,049	3,852	4,164	8,952	7,887	16,839
	50-74% specialization.....	46	3,161	7,961	2,716	4,861	5,487	12,399	15,626	28,026
	All other ⁶	17	1,287	3,633	1,142	2,137	2,544	7,371	5,772	13,144
2334- Pt.B	WOMEN'S, MISSES' AND JUNIORS' DRESSES, DOZEN PRICE "JOBBER" ⁵ (all establishments).....	68	4,059	14,307	3,107	5,957	8,424	35,821	107,007	142,829
	Establishments with:									
	90% or more specialization.....	57	3,815	13,267	2,931	5,567	7,846	32,085	94,332	126,417
	75-89% specialization.....	4	105	428	92	233	353	654	2,276	2,931
2337- Pt.A	WOMEN'S SUITS, COATS AND SKIRTS "MANUFACTURERS" ⁵ (all establishments).....	1,154	41,158	151,076	35,432	63,858	112,726	246,896	288,566	535,460
	Establishments with:									
	90% or more specialization.....	1,001	32,807	125,918	28,192	50,906	94,607	206,349	241,009	447,358
	75-89% specialization.....	48	2,092	6,248	1,850	3,323	4,703	10,256	12,530	22,796
	50-74% specialization.....	76	3,870	11,835	3,322	5,764	8,233	17,940	19,753	37,694
	All other ⁶	29	2,389	7,074	2,067	3,863	5,182	12,339	15,272	27,611
2337- Pt.B	WOMEN'S SUITS, COATS AND SKIRTS "JOBBER" ⁵ (all establishments).....	590	9,835	50,603	5,540	9,768	21,618	128,623	423,947	552,570
	Establishments with:									
	90% or more specialization.....	510	7,897	41,508	4,423	7,680	17,644	106,635	360,599	467,236
	75-89% specialization.....	25	360	1,832	187	303	729	5,188	14,947	20,136
	50-74% specialization.....	37	795	3,664	497	978	1,881	9,169	28,288	37,458
	All other ⁶	18	782	3,598	432	805	1,362	7,627	20,111	27,738
2341 Pt.A	WOMEN'S AND CHILDREN'S UNDERWEAR "MANUFACTURERS" ⁵ (all establishments).....	711	46,406	114,676	41,944	74,930	90,582	199,417	286,583	486,000
	Establishments with:									
	90% or more specialization.....	628	37,548	93,301	33,961	60,519	73,650	164,708	242,269	406,977
	75-89% specialization.....	43	4,684	10,694	4,177	7,437	8,485	15,161	19,414	34,376
	50-74% specialization.....	24	2,610	6,765	2,379	4,326	5,169	11,542	15,752	27,295
	All other ⁶	16	1,563	3,916	1,425	2,647	3,276	8,005	9,146	17,151
2341 Pt.B	WOMEN'S AND CHILDREN'S UNDERWEAR AND NIGHTWEAR "JOBBER" ⁵ (all establishments).....	204	3,925	14,971	2,738	4,705	6,757	40,184	173,977	214,161
	Establishments with:									
	90% or more specialization.....	186	3,278	12,938	2,239	3,722	5,570	35,699	159,748	195,448
	75-89% specialization.....	8	43	210	15	39	50	1,311	3,408	4,719
	50-74% specialization.....	7	506	1,361	426	845	984	2,121	8,895	11,016
	All other ⁶	3	97	461	57	98	152	1,052	1,925	2,977
2342 Pt.A	CORSETS AND ALLIED GARMENTS "MANUFACTURERS" ⁵ (all establishments).....	331	23,459	70,433	20,001	35,953	49,467	152,224	120,912	273,136
	Establishments with:									
	90% or more specialization.....	300	20,173	60,519	17,191	30,485	42,409	124,058	103,712	227,771
	75-89% specialization.....	13	1,987	6,185	1,755	3,344	4,418	12,019	9,926	21,946
2342 Pt.B	CORSETS AND ALLIED GARMENTS "JOBBER" ⁷ (all estab- lishments).....	27	3,008	11,846	1,998	3,715	5,877	30,254	57,861	88,116
2369 Pt.A	CHILDREN'S OUTERWEAR, N.E.C., "MANUFACTURERS" ⁵ (all establishments).....	407	18,152	44,272	16,485	30,110	35,464	74,003	89,752	163,755
	Establishments with:									
	90% or more specialization.....	258	7,548	18,305	6,794	12,397	14,644	29,882	33,831	63,713
	75-89% specialization.....	45	3,714	9,814	3,397	6,412	7,857	17,384	19,106	36,490
	50-74% specialization.....	80	4,819	11,456	4,406	7,946	9,175	19,042	25,928	44,971
	All other ⁶	24	2,070	4,697	1,886	3,354	3,787	7,694	10,886	18,580
2369 Pt.B	CHILDREN'S OUTERWEAR, N.E.C., "JOBBER" ⁵ (all estab- lishments).....	123	2,475	8,806	1,668	2,877	4,209	22,009	64,283	86,292
	Establishments with:									
	90% or more specialization.....	72	1,051	3,825	660	1,101	1,621	10,300	27,830	38,130
	75-89% specialization.....	11	231	819	168	271	451	2,086	6,559	8,645
	50-74% specialization.....	31	1,015	3,487	722	1,280	1,764	7,287	22,056	29,344
	All other ⁶	9	176	674	117	223	371	2,334	7,837	10,172
2384 Pt.A	ROBES AND DRESSING GOWNS "MANUFACTURERS" ⁵ (all establishments).....	111	5,090	13,688	4,616	8,111	10,243	23,466	29,809	53,276
	Establishments with:									
	90% or more specialization.....	79	3,457	9,660	3,144	5,565	7,125	16,357	21,579	37,937
	75-89% specialization.....	11	639	1,775	554	947	1,180	3,243	3,821	7,065
	50-74% specialization.....	15	940	2,145	865	1,530	1,831	3,745	4,332	8,077

See footnotes at end of table.

MANUFACTURES—SUMMARY STATISTICS

GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY INDUSTRY SPECIALIZATION
FOR THE UNITED STATES: 1954—Continued

Ind. code	Industry by percent of specialization	Estab- lish- ments, number	All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
2384 Pt.B	ROES AND DRESSING GOWNS—"JOBBER" ⁵ (all estab- lishments).....	62	1,073	3,844	748	1,244	1,910	7,618	31,274	38,893
	Establishments with:									
	90% or more specialization.....	48	900	3,152	643	1,061	1,565	6,220	26,143	32,364
	75-89% specialization.....	5	46	229	27	53	113	524	2,122	2,646
	50-74% specialization.....	9	126	462	77	130	231	873	3,008	3,882
2385 Pt.A	WATER-PROOF OUTER GARMENTS—"MANUFACTURERS" ⁵ (all establishments).....	150	8,142	22,003	7,038	12,873	16,632	37,630	34,623	72,254
	Establishments with:									
	90% or more specialization.....	106	4,501	12,492	4,009	7,356	9,846	23,119	22,611	45,730
	75-89% specialization.....	13	1,143	3,043	971	1,569	2,057	4,522	3,467	7,990
2385 Pt.B	WATER-PROOF OUTER GARMENTS—"JOBBER" ⁵ (all estab- lishments).....	41	669	2,717	420	797	1,257	8,637	23,245	31,882
	Establishments with:									
	90% or more specialization.....	35	614	2,502	397	768	1,200	7,240	20,302	27,543
2386 Pt.A	LEATHER AND SHEEP-LINED CLOTHING—"MANUFACTURERS" ⁵ (all establishments).....	118	4,290	12,862	3,664	6,395	9,481	19,745	25,940	45,686
	Establishments with:									
	90% or more specialization.....	81	2,332	7,136	2,032	3,689	5,493	11,027	15,867	26,895
	75-89% specialization.....	13	437	1,143	387	634	865	1,925	2,149	4,075
	50-74% specialization.....	19	905	2,836	769	1,305	2,035	4,181	5,528	9,709
	All other ¹	5	614	1,745	475	766	1,087	2,611	2,395	5,006
2387 Pt.A	BELTS—"MANUFACTURERS" ⁵ (all establishments).....	396	10,309	30,023	8,728	16,184	20,913	48,214	41,779	89,994
	Establishments with:									
	90% or more specialization.....	346	7,833	22,854	6,724	12,337	16,492	37,251	30,977	68,229
	75-89% specialization.....	15	925	3,064	706	1,327	1,636	5,120	4,382	9,503
	50-74% specialization.....	27	784	1,968	690	1,312	1,519	3,544	2,788	6,333
	All other ¹	8	766	2,137	607	1,207	1,265	2,297	3,630	5,928
2392	HOUSEFURNISHINGS (entire industry).....	1,213	36,188	97,105	31,948	59,271	71,686	173,910	329,293	503,203
	Establishments with:									
	90% or more specialization.....	814	23,167	63,204	20,522	38,380	47,615	118,337	245,838	364,175
	75-89% specialization.....	84	4,077	11,597	3,468	6,427	7,701	20,570	32,798	53,368
	50-74% specialization.....	130	5,230	13,078	4,586	8,310	9,180	21,518	40,159	61,678
	All other ¹	185	3,713	9,226	3,371	6,153	7,189	13,485	10,496	23,981
2393	TEXTILE BAGS (entire industry).....	268	12,109	35,120	9,897	18,748	24,329	51,641	169,337	220,978
	Establishments with:									
	90% or more specialization.....	190	5,610	15,538	4,689	8,807	10,977	24,292	82,771	107,063
	75-89% specialization.....	29	2,650	7,596	2,178	4,114	5,257	9,067	41,879	50,946
	50-74% specialization.....	39	3,481	10,982	2,754	5,286	7,457	16,838	42,668	59,507
	All other ¹	10	367	1,003	274	539	637	1,442	2,018	3,461
2394	CANVAS PRODUCTS (entire industry).....	1,119	13,540	40,180	10,724	20,498	25,917	61,442	68,170	129,611
	Establishments with:									
	90% or more specialization.....	902	9,570	27,771	7,637	14,443	18,349	42,816	47,381	90,197
	75-89% specialization.....	70	733	2,225	563	1,028	1,335	3,377	3,281	6,659
	50-74% specialization.....	97	2,473	8,452	1,862	3,953	5,111	12,799	14,803	27,603
	All other ¹	50	763	1,731	662	1,072	1,121	2,448	2,703	5,152
2399	TEXTILE PRODUCTS N.E.C., (entire industry).....	1,104	18,006	52,167	15,280	28,733	37,314	87,272	113,923	201,198
	Establishments with:									
	90% or more specialization.....	795	9,879	27,242	8,323	15,457	19,254	47,615	73,600	121,219
	75-89% specialization.....	37	1,616	4,993	1,318	2,504	3,166	8,985	13,555	22,541
	50-74% specialization.....	53	2,175	6,352	1,839	3,573	4,414	10,413	15,866	26,280
	All other ¹	219	4,335	13,578	3,799	7,198	10,478	20,257	10,900	31,157
2411	LOGGING CAMPS AND CONTRACTORS (entire industry).....	12,865	75,510	210,625	68,171	115,575	182,295	389,928	343,525	733,417
	Establishments with:									
	90% or more specialization.....	9,139	49,638	138,269	44,259	75,542	118,275	256,184	277,074	533,247
	75-89% specialization.....	61	668	1,690	639	1,186	1,607	2,108	3,168	5,277
	50-74% specialization.....	125	1,224	2,952	1,106	1,983	2,570	5,111	5,649	10,761
	All other ¹	3,540	23,978	67,714	22,166	36,862	59,842	126,524	57,633	184,132
2421	SAWMILLS AND PLANING MILLS (entire industry).....	19,778	321,199	906,847	296,070	558,428	781,760	1,502,911	1,744,005	3,247,200
	Establishments with:									
	90% or more specialization.....	16,924	277,870	787,395	256,087	482,484	678,008	1,319,408	1,579,282	2,899,277
	75-89% specialization.....	137	13,755	45,160	12,566	26,899	38,941	67,159	74,518	141,678
	50-74% specialization.....	139	12,023	39,358	10,920	21,777	33,415	63,849	66,768	130,317
	All other ¹	2,578	17,549	34,932	16,495	27,267	31,394	52,493	23,436	75,928
2422	VENEER MILLS (entire industry).....	261	12,825	35,453	11,796	23,254	28,464	59,250	61,468	120,718
	Establishments with:									
	90% or more specialization.....	224	9,959	27,072	9,168	17,737	21,801	46,233	48,717	94,951
	75-89% specialization.....	8	793	2,478	707	1,495	1,830	3,338	3,755	7,093
	50-74% specialization.....	24	1,875	5,237	1,736	3,592	4,284	8,837	8,765	17,602
	All other ¹	5	197	666	183	430	548	840	230	1,077

See footnotes at end of table.

INDUSTRY SPECIALIZATION OF ESTABLISHMENTS

211-11

GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY INDUSTRY SPECIALIZATION
FOR THE UNITED STATES: 1954--Continued

Ind. code	Industry by percent of specialization	Estab- lish- ments, number	All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
2431	MILLWORK PLANTS (entire industry).....	3,348	68,668	258,198	55,700	113,488	188,156	374,518	498,490	873,007
	Establishments with:									
	90% or more specialization.....	2,618	42,136	159,049	34,313	69,918	115,641	233,645	325,451	559,096
	75-89% specialization.....	285	12,269	47,472	9,670	19,793	34,552	69,439	86,602	156,041
	50-74% specialization.....	317	12,601	45,630	10,381	21,135	33,411	62,653	78,560	141,214
	All other ¹	128	1,660	6,046	1,335	2,641	4,551	8,780	7,875	16,656
2432	PLYWOOD PLANTS (entire industry).....	255	39,201	152,301	36,100	74,155	133,940	246,250	268,772	515,023
	Establishments with:									
	90% or more specialization.....	218	32,306	124,847	29,880	61,067	110,201	198,337	223,633	421,971
	75-89% specialization.....	12	1,837	7,742	1,611	3,519	6,390	13,299	12,082	25,381
	50-74% specialization.....	17	4,082	15,514	3,685	7,636	13,354	26,228	24,348	50,576
	All other ¹	8	976	4,198	923	1,932	3,994	8,385	8,708	17,094
2433	PREFABRICATED WOOD PRODUCTS (entire industry).....	231	11,547	45,905	9,216	17,615	29,125	88,999	135,388	224,388
	Establishments with:									
	90% or more specialization.....	207	11,010	44,198	8,752	16,460	27,829	86,268	132,029	218,297
	75-89% specialization.....	10	188	523	162	272	376	975	913	1,889
2444	WOODEN BOXES (entire industry).....	1,101	39,522	105,781	35,871	70,136	86,643	165,361	186,754	352,108
	Establishments with:									
	90% or more specialization.....	918	31,074	81,387	28,322	55,082	66,764	128,235	145,259	273,487
	75-89% specialization.....	64	4,578	13,182	4,102	8,293	10,750	21,085	17,912	38,998
	50-74% specialization.....	80	2,878	8,630	2,564	5,046	7,028	13,206	19,384	32,590
	All other ¹	39	992	2,582	881	1,713	2,100	2,833	4,198	7,032
2445	COOPERAGE (entire industry).....	180	3,723	12,350	3,377	6,497	10,507	21,656	38,693	60,350
	Establishments with:									
	90% or more specialization.....	165	3,292	11,048	2,977	5,700	9,391	19,059	36,202	55,261
2493	MIRROR AND PICTURE FRAMES (entire industry).....	343	5,214	17,351	4,420	8,845	12,520	27,601	20,020	47,622
	Establishments with:									
	90% or more specialization.....	317	3,813	12,233	3,249	6,397	8,932	20,431	15,278	35,710
	75-89% specialization.....	9	347	1,144	308	652	834	1,706	1,685	3,391
2499	WOOD PRODUCTS (entire industry).....	2,103	38,600	107,357	34,318	67,852	85,438	172,961	156,790	329,758
	Establishments with:									
	90% or more specialization.....	1,769	28,322	76,309	25,279	49,968	61,179	125,526	113,411	238,944
	75-89% specialization.....	73	3,426	10,002	3,015	6,032	8,005	14,911	16,191	31,102
	50-74% specialization.....	154	5,286	16,266	4,664	9,095	12,640	25,507	21,747	47,254
	All other ¹	87	1,565	4,779	1,359	2,756	3,613	7,017	5,440	12,458
2511	WOOD FURNITURE, NOT UPHOLSTERED (entire industry).....	2,785	124,898	388,409	109,618	222,063	303,249	592,714	520,550	1,113,264
	Establishments with:									
	90% or more specialization.....	2,284	98,439	299,076	87,079	176,468	236,810	466,139	419,182	885,322
	75-89% specialization.....	179	12,106	41,616	10,293	20,456	30,851	61,290	44,930	106,221
	50-74% specialization.....	222	11,826	39,466	10,063	20,731	29,292	52,136	44,902	97,038
	All other ¹	100	2,526	8,250	2,181	4,407	6,295	13,147	11,535	24,683
2512	UPHOLSTERED HOUSEHOLD FURNITURE (entire industry).....	1,780	56,022	193,596	48,119	93,276	146,990	313,034	319,780	632,813
	Establishments with:									
	90% or more specialization.....	1,532	45,827	159,122	39,367	76,326	121,520	257,822	265,904	523,726
	75-89% specialization.....	76	3,211	9,926	2,729	5,113	7,656	16,466	15,124	31,591
	50-74% specialization.....	121	5,809	20,228	4,997	9,861	14,550	31,409	31,324	62,733
	All other ¹	51	1,174	4,319	1,025	1,974	3,263	7,335	7,427	14,763
2514	METAL HOUSEHOLD FURNITURE (entire industry).....	641	29,629	110,933	24,345	47,083	80,199	190,816	211,758	402,575
	Establishments with:									
	90% or more specialization.....	514	19,049	69,582	15,785	30,158	50,042	128,239	142,728	270,968
	75-89% specialization.....	35	3,109	11,517	2,588	5,221	8,734	19,626	22,468	42,095
	50-74% specialization.....	65	4,403	17,778	3,521	7,074	12,802	26,043	28,822	54,866
	All other ¹	27	3,067	12,055	2,450	4,629	8,620	16,906	17,739	34,645
2515	MATTRESSES AND BEDSPRINGS (entire industry).....	1,195	32,096	121,516	25,122	49,325	84,588	216,362	248,153	464,516
	Establishments with:									
	90% or more specialization.....	928	11,083	38,974	8,632	16,965	25,590	74,306	101,973	176,279
	75-89% specialization.....	103	4,755	18,716	3,359	6,670	10,972	33,542	41,421	74,964
	50-74% specialization.....	129	12,976	52,259	10,392	19,829	39,673	88,827	86,044	174,872
	All other ¹	35	3,281	11,565	2,738	5,859	8,351	19,685	18,715	38,401
2519	HOUSEHOLD FURNITURES (entire industry).....	69	1,285	4,437	1,056	2,074	3,316	7,815	7,760	15,576
	Establishments with:									
	90% or more specialization.....	54	799	2,632	666	1,338	2,218	4,443	4,851	9,295
2521	WOOD OFFICE FURNITURE (entire industry).....	112	5,509	18,788	4,773	9,681	14,605	28,757	23,954	52,712
	Establishments with:									
	90% or more specialization.....	81	3,690	13,489	3,170	6,517	10,353	20,746	17,220	37,967
	75-89% specialization.....	4	99	231	93	184	197	315	271	587
	50-74% specialization.....	21	1,620	4,645	1,420	2,805	3,691	7,111	6,207	13,319
	All other ¹	6	98	422	89	173	362	583	255	839

See footnotes at end of table.

MANUFACTURES—SUMMARY STATISTICS

GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY INDUSTRY SPECIALIZATION
FOR THE UNITED STATES: 1954--Continued

Ind. code	Industry by percent of specialization	Estab- lish- ments, number	All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
2522	METAL OFFICE FURNITURE (entire industry).....	129	16,143	66,038	13,397	26,765	51,535	125,808	77,103	202,932
	Establishments with:									
	90% or more specialization.....	103	7,330	28,973	6,241	12,565	22,836	53,624	38,576	92,200
	75-89% specialization.....	10	2,269	8,619	1,848	3,702	6,652	21,218	10,023	31,242
2531	PUBLIC-BUILDING FURNITURE (entire industry).....	292	14,044	52,638	11,556	24,120	38,905	87,446	72,098	159,545
	Establishments with:									
	90% or more specialization.....	215	6,982	25,018	6,063	12,687	19,442	40,852	35,019	75,872
	75-89% specialization.....	15	2,477	11,538	1,831	3,679	7,918	17,673	12,971	30,645
	50-74% specialization.....	42	3,176	10,833	2,595	5,617	8,004	19,315	16,595	35,910
	All other ¹	20	1,408	5,248	1,066	2,135	3,539	9,605	7,512	17,117
2532	PROFESSIONAL FURNITURE (entire industry).....	102	5,526	23,092	4,234	8,834	15,853	38,228	27,172	65,401
	Establishments with:									
	90% or more specialization.....	73	3,466	14,659	2,711	5,628	10,145	24,541	16,182	40,724
	75-89% specialization.....	4	252	915	220	430	692	1,433	1,141	2,575
	50-74% specialization.....	17	618	2,454	458	876	1,659	3,406	3,786	7,192
	All other ¹	8	1,189	5,063	845	1,900	3,357	8,846	6,062	14,909
2541	PARTITIONS AND FIXTURES (entire industry).....	1,626	33,137	142,515	26,584	53,101	102,071	230,712	166,231	396,974
	Establishments with:									
	90% or more specialization.....	1,326	21,384	93,302	17,285	34,520	67,013	153,426	104,741	258,199
	75-89% specialization.....	114	4,886	24,548	4,378	8,752	16,072	38,734	28,476	67,210
	50-74% specialization.....	135	3,061	13,036	2,472	5,063	9,367	19,082	14,363	33,446
	All other ¹	51	2,804	11,629	2,446	4,764	9,618	19,469	18,649	38,118
2561	WINDOW AND DOOR SCREENS (entire industry).....	215	4,405	16,887	3,632	7,240	11,376	32,630	38,246	70,877
	Establishments with:									
	90% or more specialization.....	154	1,447	5,516	1,233	2,292	3,314	11,175	14,381	25,557
	75-89% specialization.....	14	723	2,802	550	1,119	1,858	4,818	5,285	10,103
	50-74% specialization.....	34	1,014	3,543	828	1,689	2,469	7,053	9,275	16,329
	All other ¹	13	1,220	5,025	1,020	2,139	3,734	9,583	9,304	18,888
2562	WINDOW SHADES (entire industry).....	196	4,368	15,580	3,404	6,746	10,648	29,604	34,506	64,110
	Establishments with:									
	90% or more specialization.....	137	2,736	9,716	2,218	4,349	7,009	19,685	18,545	38,231
	75-89% specialization.....	16	208	759	150	287	447	1,358	2,815	4,174
	50-74% specialization.....	32	1,235	4,587	885	1,769	2,796	7,816	12,075	19,892
	All other ¹	11	188	517	151	339	395	743	1,069	1,812
2563	VENETIAN BLINDS (entire industry).....	916	9,416	27,254	7,290	14,012	18,065	47,696	66,455	114,152
	Establishments with:									
	90% or more specialization.....	710	5,213	14,557	3,961	7,581	9,378	27,164	40,889	68,053
	75-89% specialization.....	63	1,028	3,206	825	1,617	2,129	5,327	6,444	11,772
	50-74% specialization.....	109	2,621	8,158	2,006	3,807	5,463	13,133	17,991	31,125
	All other ¹	34	552	1,332	497	1,007	1,093	2,071	1,130	3,202
2591	RESTAURANT FURNITURE (entire industry).....	163	3,401	12,718	2,809	5,594	9,245	18,790	17,737	36,751
	Establishments with:									
	90% or more specialization.....	102	1,410	4,892	1,165	2,251	3,544	7,638	7,761	15,638
	75-89% specialization.....	16	236	998	202	407	782	1,240	945	2,186
	50-74% specialization.....	25	360	1,439	290	573	1,021	2,248	2,138	4,387
	All other ¹	20	1,394	5,389	1,151	2,362	3,895	7,662	6,891	14,539
2599	FURNITURE AND FIXTURES, N.E.C., (entire industry).....	52	810	2,969	703	1,373	2,240	5,992	5,082	11,075
	Establishments with:									
	90% or more specialization.....	35	429	1,539	369	734	1,165	2,880	2,182	5,063
	75-89% specialization.....	5	81	288	75	147	234	445	430	876
	50-74% specialization.....	7	226	858	199	381	645	2,321	2,201	4,523
	All other ¹	5	73	282	58	109	195	344	268	613
2612	INDUSTRY PAPER AND PAPERBOARD MILLS (entire industry).. Establishments with:	589	142,191	648,972	119,859	265,871	513,108	1,429,659	2,363,150	3,792,810
	90% or more specialization.....	573	136,675	624,738	115,044	255,115	493,718	1,377,769	2,306,950	3,684,719
	75-89% specialization.....	8	4,466	18,820	3,928	8,740	15,408	40,884	38,921	79,806
	50-74% specialization.....	5	509	2,661	424	962	1,927	6,862	5,549	12,411
	All other ¹	3	540	2,752	462	1,053	2,054	4,144	11,729	15,873
2613	INDUSTRY BUILDING PAPER AND BOARD MILLS—(entire industry).....	91	16,391	69,271	14,284	30,374	57,536	155,415	149,884	305,302
	Establishments with:									
	90% or more specialization.....	81	15,502	65,299	13,517	28,717	54,316	147,045	141,553	288,600
2641	PAPER COATING AND GLAZING (entire industry).....	277	27,697	123,991	20,017	42,091	80,101	282,067	340,124	622,192
	Establishments with:									
	90% or more specialization.....	198	13,954	61,298	11,238	23,976	43,816	123,399	192,464	315,864
	75-89% specialization.....	26	4,177	17,796	3,343	7,017	13,214	50,649	68,434	119,084
	50-74% specialization.....	31	9,209	43,620	5,143	10,494	22,126	106,334	76,748	183,082
	All other ¹	22	356	1,276	292	603	944	1,684	2,477	4,161

See footnotes at end of table.

INDUSTRY SPECIALIZATION OF ESTABLISHMENTS

211-13

GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY INDUSTRY SPECIALIZATION
FOR THE UNITED STATES: 1954--Continued

Ind. code	Industry by percent of specialization	Estab- lish- ments, number	All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
2661	PAPER BAGS (entire industry).....	381	33,326	121,116	27,773	56,227	89,530	211,688	411,379	623,068
	Establishments with:									
	90% or more specialization.....	320	24,034	85,650	20,298	40,935	64,345	153,132	300,347	453,380
	75-89% specialization.....	24	3,296	12,680	2,708	5,667	9,327	20,573	37,688	58,261
2671	PAPERBOARD BOXES, (entire industry).....	1,704	132,964	525,685	107,762	221,054	371,275	895,298	1,284,281	2,179,580
	Establishments with:									
	90% or more specialization.....	1,539	112,921	444,843	91,618	188,173	314,443	760,202	1,103,428	1,863,630
	75-89% specialization.....	78	9,839	39,302	8,015	16,400	28,456	66,571	94,326	160,897
	50-74% specialization.....	54	8,568	35,294	6,748	13,733	23,815	59,563	80,545	140,108
	All other ¹	33	1,636	6,245	1,379	2,747	4,560	8,961	5,982	14,943
2674	FIBER CANS, TUBES, DRUMS, etc. (entire industry).....	184	12,088	44,958	10,460	21,117	34,861	74,377	72,419	146,797
	Establishments with:									
	90% or more specialization.....	164	10,909	40,786	9,420	18,980	31,791	67,585	66,681	134,267
	75-89% specialization.....	5	209	664	185	344	301	1,211	1,790	3,002
2691	DIE-CUT PAPER AND BOARD (entire industry).....	352	12,260	47,940	9,933	19,677	34,633	97,964	108,687	206,652
	Establishments with:									
	90% or more specialization.....	250	7,471	28,834	6,202	12,527	21,909	62,237	71,477	133,715
	75-89% specialization.....	32	1,286	4,980	986	1,917	3,108	9,914	10,337	20,252
	50-74% specialization.....	26	2,595	10,712	1,994	3,795	7,481	20,786	23,986	44,772
	All other ¹	44	908	3,414	751	1,438	2,134	5,025	2,885	7,911
2699	PAPER AND BOARD PRODUCTS, N.E.C. (entire industry).....	873	73,195	289,859	58,393	120,699	205,532	584,323	843,299	1,427,622
	Establishments with:									
	90% or more specialization.....	726	50,192	194,981	40,536	83,588	139,642	416,035	580,307	976,342
	75-89% specialization.....	46	9,125	38,449	6,421	13,462	23,248	68,300	74,702	143,003
	50-74% specialization.....	71	12,778	52,620	10,562	21,877	40,028	93,984	177,059	271,044
	All other ¹	30	1,099	3,808	873	1,770	2,613	6,003	11,229	17,233
2711	NEWSPAPERS (entire industry).....	8,646	281,799	1,262,793	148,941	281,198	667,058	2,144,223	946,815	3,091,027
	Establishments with:									
	90% or more specialization.....	7,791	268,431	1,212,049	140,779	265,512	637,118	2,062,627	918,433	2,981,048
	75-89% specialization.....	437	6,257	22,506	3,939	7,609	13,894	36,768	10,558	47,326
	50-74% specialization.....	282	4,309	16,957	2,628	4,956	9,659	26,470	9,155	35,626
	All other ¹	136	2,800	11,280	1,593	3,119	6,385	18,358	8,668	27,026
2721	PERIODICALS (entire industry).....	2,045	62,428	312,695	16,348	29,614	68,218	795,543	645,416	1,440,961
	Establishments with:									
	90% or more specialization.....	1,794	48,670	252,945	11,882	20,871	51,021	673,845	554,192	1,228,037
	75-89% specialization.....	102	5,483	26,562	1,708	3,272	6,445	50,104	38,016	88,121
	50-74% specialization.....	115	6,266	25,288	2,112	4,114	8,444	62,471	32,369	94,841
	All other ¹	34	2,007	7,900	644	1,356	2,307	9,121	20,838	29,959
2732	BOOK PRINTING (entire industry).....	598	22,695	100,439	19,090	37,927	78,356	144,692	76,635	221,328
	Establishments with:									
	90% or more specialization.....	302	8,745	38,335	7,548	15,289	30,733	56,901	27,744	84,646
	75-89% specialization.....	69	6,414	26,431	5,472	10,201	21,288	36,794	17,705	54,500
	50-74% specialization.....	184	5,027	23,575	4,052	8,146	17,307	34,115	21,685	55,801
	All other ¹	43	2,508	12,097	2,017	4,290	9,027	16,880	9,500	26,381
2741	MISCELLANEOUS PUBLISHING (entire industry).....	946	18,378	73,174	5,271	9,570	24,090	149,310	81,931	231,242
	Establishments with:									
	90% or more specialization.....	807	11,636	43,272	2,443	4,128	12,772	91,874	56,324	148,199
	75-89% specialization.....	41	2,110	10,236	820	1,596	3,449	16,339	5,606	21,946
	50-74% specialization.....	74	1,864	7,615	1,029	1,800	4,050	18,372	8,921	27,294
	All other ¹	24	2,766	12,050	978	2,044	3,817	22,724	11,079	33,802
2751	COMMERCIAL PRINTING (entire industry).....	12,073	200,233	888,659	157,567	305,988	650,828	1,357,820	844,511	2,202,074
	Establishments with:									
	90% or more specialization.....	9,025	119,146	519,526	96,139	186,803	396,592	802,830	515,928	1,318,623
	75-89% specialization.....	1,177	23,745	104,825	19,140	36,375	78,992	152,977	92,669	245,525
	50-74% specialization.....	1,514	42,988	196,929	32,939	64,500	136,629	295,177	179,545	474,723
	All other ¹	357	14,352	67,378	9,347	18,309	38,613	106,834	56,367	163,203
2761	LITHOGRAPHY (entire industry).....	2,924	77,717	376,571	60,178	117,968	261,249	578,883	383,587	962,552
	Establishments with:									
	90% or more specialization.....	1,840	37,475	181,892	29,368	57,397	126,648	280,454	194,800	475,331
	75-89% specialization.....	281	11,623	58,801	8,757	17,421	39,435	92,747	55,317	148,069
	50-74% specialization.....	672	23,358	112,618	18,090	35,555	79,262	172,488	112,944	285,433
	All other ¹	131	5,259	23,259	3,962	7,594	15,903	33,193	20,525	53,718
2771	GREETING CARDS (entire industry).....	294	21,347	70,434	15,297	28,624	41,960	131,343	77,561	208,905
	Establishments with:									
	90% or more specialization.....	227	16,581	54,385	12,014	22,427	32,280	108,721	62,786	171,508
	75-89% specialization.....	16	2,154	7,863	1,535	3,058	4,478	11,741	8,302	20,043
	50-74% specialization.....	36	2,217	7,202	1,394	2,498	4,401	9,579	6,172	15,751
	All other ¹	15	394	984	353	639	800	1,301	300	1,602

See footnotes at end of table.

MANUFACTURES--SUMMARY STATISTICS

GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY INDUSTRY SPECIALIZATION
FOR THE UNITED STATES: 1954--Continued

Ind. code	Industry by percent of specialization	Estab- lish- ments, number	All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
2782	BLANKBOOKS AND PAPER RULING (entire industry).....	334	8,624	29,831	6,952	13,425	20,760	47,910	31,275	79,185
	Establishments with:									
	90% or more specialization.....	232	3,619	11,615	3,046	5,860	8,211	19,389	13,214	32,604
	75-89% specialization.....	28	716	2,662	593	1,141	1,789	3,950	2,430	6,381
	50-74% specialization.....	59	2,826	10,605	2,039	3,776	6,640	16,751	9,598	26,350
	All other ¹	15	1,462	4,948	1,273	2,647	4,119	7,818	6,031	13,849
2783	LOOSE-LEAF BINDERS AND DEVICES (entire industry).....	154	8,199	30,948	6,329	12,659	20,788	49,651	29,018	78,670
	Establishments with:									
	90% or more specialization.....	113	4,064	15,014	3,063	6,146	9,528	23,123	12,599	35,723
	75-89% specialization.....	11	178	670	141	281	446	1,081	754	1,836
2789	MISCELLANEOUS BOOKBINDING WORK (entire industry).....	201	3,303	10,925	2,910	5,671	8,244	16,968	5,401	22,370
	Establishments with:									
	90% or more specialization.....	160	2,304	7,508	2,067	4,130	5,963	11,721	3,051	14,773
	75-89% specialization.....	9	197	644	172	279	433	1,007	263	1,271
	50-74% specialization.....	22	432	1,509	381	690	1,065	2,332	991	3,324
	All other ¹	10	368	1,264	289	570	783	1,906	1,095	3,001
2811	SULFURIC ACID (entire industry).....	47	3,805	16,730	2,927	5,922	12,119	66,175	73,094	139,270
	Establishments with:									
	90% or more specialization.....	31	1,380	6,186	1,018	2,023	4,290	29,444	30,196	59,641
2812	ALKALIES AND CHLORINE (entire industry).....	29	20,440	96,047	15,198	31,393	67,890	251,033	148,875	399,908
	Establishments with:									
	90% or more specialization.....	12	4,106	19,320	3,062	6,363	14,048	60,573	33,827	94,400
2819	INORGANIC CHEMICALS, N.E.C. (entire industry).....	442	97,006	480,798	59,418	121,099	266,260	1,069,335	790,037	1,859,372
	Establishments with:									
	90% or more specialization.....	331	29,637	133,313	22,615	45,950	94,343	384,859	424,871	809,730
	75-89% specialization.....	45	10,305	47,383	6,419	13,615	27,840	101,521	97,997	199,519
	50-74% specialization.....	40	7,439	35,907	5,433	10,838	23,972	116,949	87,167	204,116
2821	CYCLIC (COAL TAR) CRUDES (entire industry).....	43	1,925	8,246	1,488	2,829	5,620	22,179	54,974	77,154
	Establishments with:									
	90% or more specialization.....	28	761	3,286	604	1,080	2,174	9,321	23,029	32,351
2822	INTERMEDIATES AND ORGANIC COLORS (entire industry).....	107	32,748	165,511	22,297	44,142	99,416	362,305	353,296	715,602
	Establishments with:									
	90% or more specialization.....	67	4,911	23,698	3,779	7,582	14,890	48,796	69,304	118,101
	75-89% specialization.....	10	4,349	21,235	3,158	6,416	13,901	40,221	32,594	72,815
	50-74% specialization.....	20	11,622	58,244	7,154	13,953	32,441	143,314	146,462	289,776
	All other ¹	10	11,865	62,334	8,205	16,190	38,183	129,973	104,935	234,909
2823	PLASTICS MATERIALS (entire industry).....	206	41,145	201,487	28,388	57,441	122,188	583,224	648,224	1,231,448
	Establishments with:									
	90% or more specialization.....	153	27,457	136,575	18,972	38,144	82,513	388,709	427,787	816,495
	75-89% specialization.....	20	3,739	17,596	2,661	5,362	11,095	56,510	70,302	126,813
2829	ORGANIC CHEMICALS, N.E.C. (entire industry).....	275	67,531	364,852	46,428	93,101	227,428	1,171,165	1,027,522	2,198,687
	Establishments with:									
	90% or more specialization.....	173	18,047	96,926	12,583	25,189	61,190	374,886	300,107	674,992
	75-89% specialization.....	35	17,642	94,971	12,094	23,713	59,480	325,677	321,319	646,996
	50-74% specialization.....	51	22,195	121,350	15,436	31,272	76,570	311,628	307,751	619,379
	All other ¹	16	9,646	51,604	6,315	12,927	30,187	158,973	98,345	257,319
2831	BIOLOGICAL PRODUCTS (entire industry).....	93	3,965	15,789	2,864	5,722	9,333	36,680	24,292	60,973
	Establishments with:									
	90% or more specialization.....	77	2,486	9,665	1,823	3,648	5,984	22,835	15,391	38,226
	75-89% specialization.....	7	191	764	125	253	380	1,809	1,228	3,037
	50-74% specialization.....	9	1,287	5,359	915	1,821	2,968	12,036	7,673	19,709
2833	MEDICINAL CHEMICALS INC. BOTANICALS (entire industry) ..	115	11,541	56,872	7,743	16,229	33,345	138,877	113,600	252,478
	Establishments with:									
	90% or more specialization.....	81	2,169	9,788	1,517	3,120	5,562	27,175	23,147	50,323
	75-89% specialization.....	11	1,430	6,996	1,180	2,719	5,448	21,066	18,791	39,858
	50-74% specialization.....	16	5,385	26,603	3,554	7,293	15,049	72,618	54,159	126,778
	All other ¹	7	2,555	13,484	1,490	3,096	7,284	18,017	17,502	35,519
2834	PHARMACEUTICAL PREPARATIONS (entire industry).....	1,163	76,555	353,769	47,320	95,123	173,324	1,161,004	482,136	1,643,140
	Establishments with:									
	90% or more specialization.....	1,014	50,950	232,838	30,225	59,481	105,610	810,306	323,337	1,133,643
	75-89% specialization.....	56	17,898	86,186	12,181	25,350	49,946	249,537	112,914	362,452
	50-74% specialization.....	70	5,758	27,091	3,881	8,260	14,486	77,254	38,088	115,342
	All other ¹	23	1,948	7,652	1,031	2,031	3,280	23,905	7,706	31,702

See footnotes at end of table.

INDUSTRY SPECIALIZATION OF ESTABLISHMENTS

211-15

GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY INDUSTRY SPECIALIZATION
FOR THE UNITED STATES: 1954--Continued

Ind. code	Industry by percent of specialization	Estab- lish- ments, number	All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
2841	SOAP AND GLYCERIN (entire industry).....	289	25,839	127,817	15,668	29,259	63,303	510,756	448,923	959,679
	Establishments with:									
	90% or more specialization.....	197	13,071	64,412	8,737	17,010	38,220	311,015	291,414	602,429
	75-89% specialization.....	28	4,963	22,742	3,298	5,211	14,106	100,392	77,587	177,979
	50-74% specialization.....	35	6,210	32,604	3,118	6,022	14,313	86,227	67,235	153,463
	All other ¹	29	1,593	8,057	513	1,015	1,663	13,120	12,686	25,807
2842	CLEANING AND POLISHING PREPARATIONS (entire industry)..	1,151	18,026	78,550	10,551	20,206	34,593	288,590	271,478	560,059
	Establishments with:									
	90% or more specialization.....	907	11,143	46,926	6,820	13,047	21,530	180,331	160,017	340,341
	75-89% specialization.....	76	1,316	6,076	633	1,121	1,899	10,766	12,073	22,840
	50-74% specialization.....	123	4,380	20,647	2,409	4,779	9,017	80,307	85,936	166,243
	All other ¹	45	1,186	4,900	687	1,258	2,146	17,185	13,450	30,635
2843	SULFONATED OILS AND ASSISTANTS (entire industry).....	103	2,355	13,044	1,352	2,507	4,729	28,322	34,655	62,977
	Establishments with:									
	90% or more specialization.....	64	924	5,362	510	931	1,747	11,251	13,654	24,905
	75-89% specialization.....	15	445	2,747	246	367	774	4,321	4,337	8,658
	50-74% specialization.....	16	417	1,835	265	546	893	5,598	7,856	13,455
	All other ¹	8	568	3,099	329	662	1,314	7,151	8,807	15,959
2851	PAINTS AND VARNISHES (entire industry).....	1,469	56,580	263,887	33,865	67,660	127,640	642,656	851,816	1,494,399
	Establishments with:									
	90% or more specialization.....	1,294	46,422	215,830	27,550	54,858	102,884	511,708	690,791	1,202,427
	75-89% specialization.....	82	5,722	27,026	3,542	7,115	14,108	81,337	90,929	172,267
	50-74% specialization.....	72	3,939	19,137	2,496	5,147	9,760	44,386	66,095	110,482
	All other ¹	21	496	1,894	275	539	885	5,223	3,999	9,223
2852	INORGANIC COLOR PIGMENTS (entire industry).....	104	12,182	54,755	9,042	18,220	37,193	196,901	174,493	371,395
	Establishments with:									
	90% or more specialization.....	75	8,099	35,598	6,115	12,176	25,050	130,811	114,112	244,924
	75-89% specialization.....	9	1,066	4,397	768	1,541	2,907	10,483	14,130	24,614
	50-74% specialization.....	11	2,245	11,241	1,549	3,191	6,719	44,798	31,576	76,374
	All other ¹	9	771	3,517	609	1,311	2,516	10,807	14,674	25,482
2862	SOFTWOOD DISTILLATION (entire industry).....	27	44,431	17,662	3,698	7,886	13,260	47,374	41,275	88,650
	Establishments with:									
	90% or more specialization.....	18	1,180	3,652	1,026	2,218	2,950	7,613	7,264	14,877
2865	NATURAL TANNING AND DYEING MATERIALS (entire industry).	30	670	2,507	545	1,054	1,594	4,785	9,032	13,818
	Establishments with:									
	90% or more specialization.....	26	386	1,409	319	606	885	2,357	5,388	7,745
2871	FERTILIZERS (entire industry).....	260	19,728	73,048	15,728	34,527	53,431	171,297	362,150	533,448
	Establishments with:									
	90% or more specialization.....	234	16,645	61,389	13,466	29,380	45,245	148,650	321,482	470,133
	75-89% specialization.....	10	1,465	5,949	1,022	2,350	4,071	8,678	18,754	27,433
	50-74% specialization.....	5	669	2,826	477	1,135	1,880	3,600	6,634	10,234
	All other ¹	11	948	2,883	762	1,662	2,234	10,367	15,279	25,647
2883	SOYBEAN OIL MILLS (entire industry).....	88	6,922	29,453	5,447	11,624	20,679	106,938	719,422	826,362
	Establishments with:									
	90% or more specialization.....	66	4,528	18,418	3,630	7,536	12,964	58,239	510,917	569,158
2884	VEGETABLE OIL MILLS, N.E.C. (entire industry).....	51	2,460	9,198	1,893	4,041	6,337	21,240	144,740	165,982
	Establishments with:									
	90% or more specialization.....	36	670	2,333	544	1,151	1,738	5,185	41,859	47,044
	75-89% specialization.....	6	281	898	250	555	769	2,009	11,320	13,329
	50-74% specialization.....	5	481	2,318	333	762	1,480	4,592	38,591	43,183
	All other ¹	4	1,028	3,649	764	1,573	2,350	9,454	52,970	62,424
2886	GREASE AND TALLOW (entire industry).....	500	11,466	46,633	8,480	19,567	31,291	95,451	127,072	222,516
	Establishments with:									
	90% or more specialization.....	288	6,391	25,945	4,764	10,871	17,270	52,730	71,895	124,617
	75-89% specialization.....	132	2,863	11,921	2,108	4,913	7,982	23,064	27,780	50,845
	50-74% specialization.....	69	2,062	8,137	1,480	3,477	5,503	18,372	24,680	43,053
	All other ¹	11	149	629	126	305	533	1,284	2,715	4,000
2887	FATTY ACIDS (entire industry).....	15	1,891	10,263	1,185	2,712	6,009	21,922	34,069	55,991
	Establishments with:									
	90% or more specialization.....	3	174	823	133	299	544	1,762	2,722	4,485
	75-89% specialization.....	6	718	3,798	425	1,030	2,127	4,877	10,071	14,948
2889	ANIMAL OILS, N.E.C. (entire industry).....	61	2,294	8,430	1,889	4,384	6,282	22,079	43,294	65,374
	Establishments with:									
	90% or more specialization.....	52	1,943	6,542	1,671	3,853	5,268	18,559	33,759	52,319
2892	ESSENTIAL OILS (entire industry).....	37	547	2,846	330	636	1,215	5,484	15,348	20,832
	Establishments with:									
	90% or more specialization.....	27	264	1,291	167	312	611	2,804	9,516	12,320

See footnotes at end of table.

MANUFACTURES—SUMMARY STATISTICS

GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY INDUSTRY SPECIALIZATION
FOR THE UNITED STATES: 1954--Continued

Ind. code	Industry by percent of specialization	Estab- lish- ments, number	All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
2893	TOILET PREPARATIONS (entire industry).....	710	24,809	94,726	16,185	31,051	47,728	419,666	208,986	628,651
	Establishments with:									
	90% or more specialization.....	615	17,762	66,845	11,833	22,859	34,152	293,099	144,060	437,159
	75-89% specialization.....	30	3,361	12,815	2,126	3,942	6,489	54,012	28,282	82,294
	50-74% specialization.....	44	2,998	12,761	1,722	3,279	5,774	64,890	32,255	97,146
	All other ¹	21	687	2,303	503	969	1,313	7,664	4,387	12,052
2894	GLUE AND GELATIN (entire industry).....	230	6,753	29,192	4,814	9,425	17,683	64,771	74,580	139,352
	Establishments with:									
	90% or more specialization.....	174	3,575	15,300	2,394	4,407	8,080	35,385	47,299	82,684
	75-89% specialization.....	15	1,554	6,785	1,275	2,562	5,053	14,048	12,735	26,783
	50-74% specialization.....	30	1,358	5,836	1,007	2,183	4,069	13,277	11,875	25,153
	All other ¹	11	265	1,270	137	272	479	2,061	2,670	4,731
2896	COMPRESSED AND LIQUEFIED GASES (entire industry).....	428	10,363	44,092	6,315	13,143	25,288	111,254	56,422	167,674
	Establishments with:									
	90% or more specialization.....	424	10,195	43,449	6,205	12,911	24,881	109,651	55,838	165,488
2897	INSECTICIDES AND FUNGICIDES (entire industry).....	265	6,510	25,218	4,276	8,224	13,211	62,099	112,514	174,613
	Establishments with:									
	90% or more specialization.....	202	3,933	14,399	2,592	5,000	7,264	30,293	75,310	105,603
	75-89% specialization.....	25	520	1,895	349	659	998	4,100	6,518	10,618
	50-74% specialization.....	32	1,553	6,993	996	1,904	3,720	23,019	24,284	47,304
	All other ¹	6	504	1,931	337	660	1,228	4,686	6,401	11,088
2899	CHEMICAL PRODUCTS, N.E.C. (entire industry).....	1,204	21,415	95,026	13,346	25,443	45,473	266,627	264,586	531,213
	Establishments with:									
	90% or more specialization.....	933	11,238	50,699	6,639	12,386	22,189	140,308	138,634	278,942
	75-89% specialization.....	65	1,777	8,526	1,143	2,187	4,278	27,671	24,668	52,339
	50-74% specialization.....	140	5,004	21,970	3,106	6,131	10,525	69,855	65,447	135,303
	All other ¹	66	3,394	13,830	2,457	4,737	8,480	28,792	35,836	64,628
2911	PETROLEUM REFINING (entire industry).....	409	153,072	816,120	113,829	223,116	570,791	1,901,333	9,855,883	11,757,218
	Establishments with:									
	90% or more specialization.....	393	146,501	781,912	108,807	213,297	546,172	1,848,675	9,637,799	11,486,474
2952	ROOFING FELTS AND COATINGS (entire industry).....	197	15,730	68,054	12,507	26,950	50,863	149,323	251,502	400,826
	Establishments with:									
	90% or more specialization.....	158	11,778	50,118	9,365	20,142	37,212	106,258	193,196	299,454
	75-89% specialization.....	14	1,293	5,842	1,032	2,125	4,434	12,822	21,070	33,893
2992	LUBRICANTS, N.E.C. (entire industry).....	283	8,159	40,062	4,702	9,414	18,912	85,063	139,152	224,216
	Establishments with:									
	90% or more specialization.....	246	4,855	24,169	2,901	5,878	11,296	56,418	97,816	154,234
	75-89% specialization.....	14	721	3,440	479	906	2,156	7,452	12,871	20,323
	50-74% specialization.....	19	1,494	7,533	581	1,143	2,171	13,359	20,084	33,443
	All other ¹	4	1,088	4,920	740	1,487	3,288	7,834	8,380	16,214
3011	TIRES AND INNER TUBES (entire industry).....	49	98,748	441,607	73,976	137,981	334,104	844,545	997,186	1,841,732
	Establishments with:									
	90% or more specialization.....	31	59,372	288,746	47,435	91,766	221,741	601,564	717,395	1,318,960
	75-89% specialization.....	7	9,411	43,494	7,501	14,086	33,089	75,070	96,067	171,138
3021	RUBBER FOOTWEAR (entire industry).....	22	18,322	64,022	15,773	30,317	51,296	107,027	59,339	166,367
	Establishments with:									
	90% or more specialization.....	17	9,919	33,599	8,565	15,979	26,589	57,815	28,113	85,928
3031	RECLAIMED RUBBER (entire industry).....	20	2,953	12,697	2,460	4,602	9,671	22,043	16,953	38,996
	Establishments with:									
	90% or more specialization.....	11	1,721	7,540	1,392	2,637	5,543	13,865	9,350	23,216
3099	RUBBER INDUSTRIES, N.E.C. (entire industry).....	1,315	132,503	541,011	104,028	204,513	380,427	930,086	746,986	1,677,072
	Establishments with:									
	90% or more specialization.....	1,122	90,271	368,998	70,833	139,319	258,407	630,581	491,659	1,122,241
	75-89% specialization.....	53	10,969	43,106	8,873	17,021	31,734	80,859	69,102	149,962
	50-74% specialization.....	91	19,991	81,837	15,485	30,163	55,911	133,218	117,172	250,390
	All other ¹	49	11,271	47,069	8,835	18,010	34,374	85,426	69,052	154,478
3111 Pt.A	LEATHER TANNING AND FINISHING-TANNERIES (all establish- ments) ⁵	375	34,955	135,332	31,286	61,342	111,439	206,863	339,250	546,113
	Establishments with:									
	90% or more specialization.....	310	33,909	131,881	30,388	59,533	108,710	201,816	331,325	533,142
	75-89% specialization.....	3	187	638	162	325	519	943	3,499	4,443
	50-74% specialization.....	6	401	1,329	340	691	984	1,790	3,186	4,976
	All other ⁶	56	457	1,484	394	792	1,226	2,312	1,238	3,550
3111 Pt.B	LEATHER TANNING AND FINISHING-CONVERTERS (all estab- lishment) ⁵	73	849	3,654	416	687	1,175	19,161	76,769	95,930
	Establishments with:									
	90% or more specialization.....	67	826	3,534	410	676	1,163	18,880	74,854	93,734

See footnotes at end of table.

INDUSTRY SPECIALIZATION OF ESTABLISHMENTS

211-17

GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY INDUSTRY SPECIALIZATION
FOR THE UNITED STATES: 1954--Continued

Ind. code	Industry by percent of specialization	Estab- lish- ments, number	All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
3121	INDUSTRIAL LEATHER BELTING (entire industry).....	136	4,576	16,569	3,342	6,513	11,484	34,911	27,253	62,165
	Establishments with:									
	90% or more specialization.....	122	4,339	17,720	3,174	6,172	11,011	33,472	26,245	59,718
	75-89% specialization.....	4	137	446	101	203	276	882	444	1,327
3131	FOOTWEAR CUT STOCK (entire industry).....	563	20,059	57,113	17,641	32,533	44,231	87,185	159,187	246,373
	Establishments with:									
	90% or more specialization.....	511	18,320	52,219	16,105	29,776	40,446	79,106	147,161	226,267
	75-89% specialization.....	6	351	1,085	293	526	814	1,667	2,298	3,965
	50-74% specialization.....	13	783	2,293	691	1,212	1,722	3,455	7,981	11,436
	All other ¹	33	604	1,515	551	1,018	1,248	2,956	1,747	4,704
3141	FOOTWEAR, EXCEPT RUBBER (entire industry).....	1,196	219,375	589,267	199,907	356,681	490,142	940,704	850,012	1,790,717
	Establishments with:									
	90% or more specialization.....	1,098	210,097	566,620	191,338	342,006	470,990	909,041	826,424	1,735,465
	75-89% specialization.....	24	3,373	8,871	3,037	5,362	7,226	13,342	13,124	26,467
	50-74% specialization.....	25	2,318	6,010	2,079	3,396	4,752	9,135	8,868	18,004
	All other ¹	49	3,585	7,765	3,451	5,916	7,173	9,184	1,595	10,780
3142	HOUSE SLIPPERS (entire industry).....	173	10,879	30,065	9,661	16,773	22,911	45,050	45,416	90,466
	Establishments with:									
	90% or more specialization.....	131	6,846	18,577	6,088	10,694	14,258	28,261	28,110	56,371
	75-89% specialization.....	18	1,897	5,758	1,706	2,871	4,528	8,742	10,136	18,879
	50-74% specialization.....	18	1,898	5,296	1,644	2,834	3,723	7,444	6,876	14,320
	All other ¹	6	238	434	222	373	400	601	293	895
3151	LEATHER DRESS GLOVES (entire industry).....	143	4,438	9,739	3,969	6,518	7,642	13,559	14,871	28,430
	Establishments with:									
	90% or more specialization.....	106	2,511	5,291	2,297	3,757	4,385	8,150	8,629	16,779
	75-89% specialization.....	13	502	1,076	459	744	888	1,287	1,575	2,862
	50-74% specialization.....	11	1,272	3,047	1,073	1,784	2,111	3,632	4,292	7,925
	All other ¹	13	151	324	140	232	256	489	374	863
3152	LEATHER WORK GLOVES (entire industry).....	96	2,479	5,834	2,212	3,915	4,702	9,626	8,144	17,771
	Establishment with:									
	90% or more specialization.....	66	1,112	2,482	998	1,708	2,027	4,278	3,872	8,150
	75-89% specialization.....	11	405	956	362	639	742	1,430	1,359	2,790
	50-74% specialization.....	14	710	1,780	649	1,163	1,475	2,728	2,375	5,104
	All other ¹	5	251	615	202	404	458	1,189	537	1,726
3192	SADDLERY, HARNESS AND WHIPS (entire industry).....	106	1,289	3,533	1,113	2,168	2,690	5,116	5,726	10,842
	Establishments with:									
	90% or more specialization.....	83	856	2,404	734	1,433	1,818	3,414	3,816	7,231
	75-89% specialization.....	6	96	249	81	156	173	473	400	873
3254	SEWER PIPE (entire industry).....	66	9,637	35,446	8,686	17,171	29,615	55,293	18,637	73,930
	Establishments with:									
	90% or more specialization.....	40	5,622	20,828	5,069	9,826	17,957	32,731	11,252	43,984
	75-89% specialization.....	20	2,638	9,458	2,335	4,600	7,739	12,942	4,611	17,553
	50-74% specialization.....	6	1,377	5,160	1,282	2,745	3,919	9,620	2,773	12,393
3259	STRUCTURAL CLAY PRODUCTS, N.E.C. (entire industry).....	151	5,022	17,887	4,296	9,054	14,385	27,391	9,008	36,400
	Establishments with:									
	90% or more specialization.....	120	3,581	12,336	3,038	6,348	9,819	19,063	5,996	25,060
	75-89% specialization.....	12	624	2,295	572	1,201	2,100	3,731	1,240	4,971
3264	PORCELAIN ELECTRICAL SUPPLIES (entire industry).....	45	9,550	37,679	7,990	15,847	28,629	54,675	23,221	77,896
	Establishments with:									
	90% or more specialization.....	37	7,383	28,702	6,248	12,333	22,281	42,455	16,777	59,233
	75-89% specialization.....	5	1,548	6,638	1,244	2,516	4,765	9,452	4,754	14,206
	50-74% specialization.....	3	618	2,338	497	997	1,582	2,767	1,690	4,457
3269	POTTERY PRODUCTS, N.E.C. (entire industry).....	654	9,647	27,134	8,521	16,313	21,536	40,562	14,770	55,333
	Establishment with:									
	90% or more specialization.....	622	8,539	23,507	7,558	14,395	18,683	35,631	12,590	48,222
	75-89% specialization.....	5	53	138	50	96	124	245	73	319
	50-74% specialization.....	13	992	3,311	859	1,715	2,596	4,335	1,873	6,209
	All other ¹	14	61	177	52	106	132	349	232	582
3271	CONCRETE PRODUCTS (entire industry).....	5,090	60,410	216,954	46,659	96,707	146,075	396,344	339,929	736,273
	Establishments with:									
	90% or more specialization.....	4,986	58,462	209,539	45,201	93,619	141,353	383,523	329,515	713,039
	75-89% specialization.....	34	830	3,442	631	1,424	2,294	5,326	4,703	10,030
	50-74% specialization.....	38	740	2,648	554	1,129	1,689	5,054	3,444	8,499
	All other ¹	32	376	1,324	272	534	739	2,439	2,265	4,703

See footnotes at end of table.

GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY INDUSTRY SPECIALIZATION
FOR THE UNITED STATES: 1954--Continued

Ind. code	Industry by percent of specialization	Estab- lish- ments, number	All employees		Production workers			Value added by manufacture	Cost of materials, etc.	Value of shipments
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
3274	LIME (entire industry).....	145	7,989	30,645	6,835	14,456	24,454	57,383	51,842	109,226
	Establishments with:									
	90% or more specialization.....	98	2,771	10,582	2,372	5,063	8,586	22,122	22,997	45,120
	75-89% specialization.....	22	3,039	12,106	2,599	5,362	9,630	22,284	14,141	36,425
	50-74% specialization.....	19	1,911	7,169	1,643	3,551	5,605	11,524	13,800	25,325
	All other ¹	6	267	786	219	479	632	1,452	903	2,356
3281	CUT-STONE AND STONE PRODUCTS (entire industry).....	977	21,576	78,240	18,410	36,721	60,650	119,765	62,018	181,784
	Establishments with:									
	90% or more specialization.....	877	15,941	56,464	13,450	26,607	43,629	86,463	50,659	137,123
	75-89% specialization.....	32	3,212	12,269	2,870	5,959	10,307	17,009	6,450	23,460
	50-74% specialization.....	27	1,343	5,589	1,153	2,307	3,575	9,915	2,096	12,012
	All other ¹	41	1,079	3,917	936	1,846	3,138	6,377	2,811	9,188
3291	ABRASIVE PRODUCTS (entire industry).....	312	22,345	101,218	15,756	30,417	62,040	191,850	140,662	332,512
	Establishments with:									
	90% or more specialization.....	279	14,607	65,725	10,928	21,231	42,169	125,102	93,498	218,600
2392	ASBESTOS PRODUCTS (entire industry).....	110	21,977	92,413	17,760	35,985	70,319	179,864	166,340	346,206
	Establishments with:									
	90% or more specialization.....	87	12,731	52,662	10,393	21,048	39,726	108,760	112,499	221,220
	75-89% specialization.....	12	4,202	17,410	3,247	6,703	13,369	27,929	24,285	52,214
3293	GASKETS AND ASBESTOS INSULATIONS (entire industry)....	237	12,807	55,115	10,128	20,340	37,241	84,485	68,917	153,402
	Establishments with:									
	90% or more specialization.....	176	6,844	29,845	5,338	10,701	19,912	50,924	35,894	86,819
	75-89% specialization.....	30	1,729	7,365	1,379	2,969	5,243	12,616	9,979	22,596
	50-74% specialization.....	19	2,731	12,656	2,127	4,444	8,100	15,626	10,937	26,564
	All other ¹	12	1,503	5,249	1,283	2,225	3,985	5,317	12,106	17,423
3295	MINERALS: GROUND OR TREATED (entire industry).....	353	7,699	32,404	6,401	13,784	24,312	89,725	59,632	149,357
	Establishments with:									
	90% or more specialization.....	318	6,809	28,531	5,676	12,273	21,489	81,165	52,019	133,185
	75-89% specialization.....	8	206	764	173	313	541	1,888	2,180	4,069
	50-74% specialization.....	7	391	1,603	306	665	1,085	2,693	2,695	5,389
	All other ¹	20	292	1,506	245	532	1,196	3,977	2,737	6,714
3298	STATUARY AND ART GOODS (entire industry).....	220	1,726	5,315	1,450	2,822	3,932	8,332	3,441	11,774
	Establishments with:									
	90% or more specialization.....	207	1,417	3,972	1,226	2,321	3,079	6,517	2,556	9,074
3299	NONMETALLIC MINERAL PRODUCTS, N.E.C. (entire industry)..	121	4,483	15,835	3,605	7,126	10,943	30,340	24,974	55,314
	Establishments with:									
	90% or more specialization.....	103	2,652	8,866	2,138	4,116	5,962	18,668	13,668	32,337
	75-89% specialization.....	6	163	851	99	224	410	1,257	1,453	2,710
3312	STEEL WORKS AND ROLLING MILLS (entire industry).....	204	482,236	2,254,188	409,858	766,825	1,802,259	4,020,264		
	Establishments with:									
	90% or more specialization.....	157	392,958	1,852,835	335,396	628,884	1,486,351	3,340,432	(4)	(4)
	75-89% specialization.....	23	61,556	269,851	50,925	92,134	210,536	433,937		
	50-74% specialization.....	16	18,715	93,365	16,127	31,829	75,211	171,849		
	All other ¹	8	9,006	38,136	7,409	13,978	30,160	74,046		
3322	MALLEABLE-IRON FOUNDRIES (entire industry).....	81	23,378	96,888	20,205	38,306	78,004	135,175	77,178	212,354
	Establishments with:									
	90% or more specialization.....	60	15,723	65,079	13,586	25,597	52,360	88,088	50,016	138,104
	75-89% specialization.....	10	2,068	8,080	1,745	3,192	6,232	11,088	4,711	15,800
3323	STEEL FOUNDRIES (entire industry).....	239	55,073	241,305	45,655	85,684	179,361	357,824	176,893	534,718
	Establishments with:									
	90% or more specialization.....	185	41,895	182,712	34,673	64,957	135,167	273,685	127,357	401,042
	75-89% specialization.....	16	2,179	9,360	1,899	3,646	7,377	12,261	5,402	17,664
	50-74% specialization.....	29	8,138	36,728	6,873	13,187	28,071	56,478	28,643	85,122
	All other ¹	9	2,860	12,504	2,209	3,892	8,744	15,398	15,491	30,889
3341	SECONDARY NONFERROUS METALS ⁸ (entire industry).....	360	15,775	71,707	12,204	25,121	46,711	142,329	582,312	724,643
	Establishments with:									
	90% or more specialization.....	314	12,351	57,318	9,561	19,723	36,757	108,154	511,887	620,042
	75-89% specialization.....	7	443	1,717	351	720	1,178	5,492	16,854	22,346
	50-74% specialization.....	10	892	4,128	658	1,350	2,730	11,229	20,537	31,767
	All other ¹	29	2,088	8,543	1,633	3,327	6,045	17,453	33,033	50,486
3351	COPPER ROLLING AND DRAWING (entire industry).....	89	41,906	195,225	34,072	68,017	147,874	420,604	900,003	1,320,608
	Establishments with:									
	90% or more specialization.....	70	35,884	168,177	29,316	58,426	128,261	353,544	781,236	1,134,781
	75-89% specialization.....	8	3,022	13,436	2,393	4,787	9,693	33,162	59,322	92,485
3352	ALUMINUM ROLLING AND DRAWING (entire industry).....	94	36,803	164,938	29,795	60,652	125,617	339,717	534,691	874,408
	Establishments with:									
	90% or more specialization.....	82	27,473	122,216	22,336	44,924	93,230	266,209	422,266	688,476

See footnotes at end of table.

INDUSTRY SPECIALIZATION OF ESTABLISHMENTS

211-19

GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY INDUSTRY SPECIALIZATION
FOR THE UNITED STATES: 1954--Continued

Ind. code	Industry by percent of specialization	Estab- lish- ments, number	All employees		Production workers			Value added by manufacture	Cost of materials, etc.	Value of shipments
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
3359	ROLLING AND DRAWING, N.E.C. (entire industry).....	98	10,381	50,157	7,660	15,926	31,844	99,907	200,808	300,715
	Establishments with:									
	90% or more specialization.....	80	8,105	39,344	6,144	12,751	25,683	77,663	157,980	235,643
	75-89% specialization.....	7	673	3,495	531	1,090	2,270	9,433	11,189	20,622
3391	IRON AND STEEL FORGINGS (entire industry).....	259	39,771	201,938	33,012	65,120	155,311	304,258	291,175	595,434
	Establishments with:									
	90% or more specialization.....	213	26,869	136,462	22,805	44,734	106,243	205,164	212,036	417,200
	75-89% specialization.....	18	1,848	8,990	1,425	2,922	6,624	12,407	12,248	24,655
	50-74% specialization.....	19	9,491	49,194	7,558	15,101	37,188	76,082	60,943	137,026
	All other ¹	9	1,563	7,291	1,223	2,362	5,255	10,604	5,947	16,552
3392	WIRE DRAWING (entire industry).....	198	54,873	250,558	43,246	87,182	182,385	465,654	800,781	1,266,436
	Establishments with:									
	90% or more specialization.....	171	42,750	196,701	33,400	67,147	140,672	365,742	681,125	1,046,868
	75-89% specialization.....	12	4,708	22,545	3,711	7,797	17,039	42,143	75,134	117,278
	50-74% specialization.....	6	6,077	26,248	5,035	10,111	20,756	45,342	39,286	84,629
	All other ¹	9	1,337	5,064	1,098	2,124	3,915	12,425	5,235	17,661
3411	TIN CANS AND OTHER TINWARE (entire industry).....	227	55,234	245,134	48,008	97,574	202,112	482,297	884,469	1,366,766
	Establishments with:									
	90% or more specialization.....	203	48,069	213,417	42,031	85,642	177,407	431,173	818,955	1,250,128
	75-89% specialization.....	13	5,726	25,317	4,851	9,708	20,225	41,197	59,228	100,426
3421	CUTLERY (entire industry).....	182	15,102	56,062	12,362	24,578	39,609	122,357	47,392	169,750
	Establishments with:									
	90% or more specialization.....	138	9,031	34,073	7,292	14,520	23,729	81,060	27,073	108,133
	75-89% specialization.....	14	2,656	10,138	2,025	3,958	6,191	20,197	6,886	27,084
	50-74% specialization.....	17	2,429	8,066	2,186	4,390	6,677	12,355	8,587	20,943
	All other ¹	13	985	3,784	857	1,709	3,010	8,744	4,844	13,589
3422	EDGE TOOLS (entire industry).....	247	7,108	29,174	5,917	11,614	21,428	48,027	21,694	69,721
	Establishments with:									
	90% or more specialization.....	197	3,816	15,479	3,239	6,394	11,620	24,803	9,179	33,983
	75-89% specialization.....	16	1,359	5,613	1,198	2,297	4,152	8,619	6,236	14,856
	50-74% specialization.....	15	593	2,555	422	820	1,580	3,556	1,702	5,259
	All other ¹	19	1,339	5,527	1,056	2,102	4,074	11,048	4,574	15,622
3423	HAND TOOLS, N.E.C. (entire industry).....	503	23,385	93,426	18,814	36,655	66,701	162,051	94,940	256,991
	Establishments with:									
	90% or more specialization.....	389	13,693	54,624	11,056	21,606	39,074	98,353	58,775	157,129
	75-89% specialization.....	45	4,123	16,501	3,316	6,413	11,977	27,794	14,604	42,399
	50-74% specialization.....	46	3,874	15,720	3,057	6,018	10,852	24,980	13,464	38,445
	All other ¹	23	1,694	6,580	1,383	2,616	4,797	10,922	8,095	19,018
3425	HAND SAWS AND SAW BLADES (entire industry).....	99	6,879	29,287	5,327	10,320	19,927	53,246	30,435	83,682
	Establishments with:									
	90% or more specialization.....	67	2,062	8,873	1,668	3,191	5,721	16,525	8,817	25,343
	75-89% specialization.....	11	1,026	4,934	742	1,537	3,087	7,159	4,693	11,852
	50-74% specialization.....	15	2,007	7,958	1,660	3,149	6,325	18,345	7,932	26,278
	All other ¹	6	1,783	7,521	1,256	2,441	4,792	11,216	8,992	20,208
3429	HARDWARE, N.E.C. (entire industry).....	869	88,296	380,464	72,708	147,920	286,371	639,578	471,950	1,111,529
	Establishments with:									
	90% or more specialization.....	688	50,745	215,872	41,965	85,347	160,606	358,249	239,926	598,176
	75-89% specialization.....	56	15,710	69,552	12,979	26,135	52,809	126,336	86,509	212,846
	50-74% specialization.....	81	14,990	69,692	12,427	25,609	54,030	106,729	113,565	220,295
	All other ¹	44	6,850	25,347	5,335	10,827	18,924	48,263	31,948	80,211
3431	PLUMBING FIXTURES AND FITTINGS (entire industry).....	321	30,612	132,070	25,675	50,706	102,346	240,944	202,315	443,260
	Establishments with:									
	90% or more specialization.....	250	19,523	84,489	16,521	32,718	66,731	169,154	127,146	296,301
	75-89% specialization.....	24	1,840	7,081	1,551	3,066	5,353	11,950	13,716	25,667
	50-74% specialization.....	34	6,547	28,859	5,418	10,620	21,449	46,960	41,217	88,178
	All other ¹	13	2,701	11,641	2,183	4,301	8,812	12,879	20,234	33,113
3439	HEATING AND COOKING EQUIPMENT, N.E.C. (entire industry)	899	75,276	319,272	57,131	111,792	214,231	587,523	559,086	1,146,608
	Establishments with:									
	90% or more specialization.....	630	36,886	151,778	28,156	55,439	103,324	291,395	271,456	562,851
	75-89% specialization.....	102	15,509	68,509	11,832	22,582	45,718	130,628	121,847	252,476
	50-74% specialization.....	114	16,897	71,772	12,737	24,959	47,160	122,496	120,880	243,377
	All other ¹	53	5,983	27,213	4,404	8,811	18,027	43,002	44,901	87,904
3441	STRUCTURAL AND ORNAMENTAL WORK (entire industry).....	2,917	116,274	527,386	88,065	179,901	352,662	909,782	900,189	1,809,971
	Establishments with:									
	90% or more specialization.....	2,373	78,290	353,587	59,765	121,037	238,080	638,512	632,969	1,271,482
	75-89% specialization.....	178	11,408	53,141	8,284	17,614	32,978	79,869	83,619	163,489
	50-74% specialization.....	237	16,606	74,935	12,638	26,505	51,212	120,200	117,013	237,214
	All other ¹	129	9,968	45,722	7,378	14,744	30,391	71,200	66,585	137,786

See footnotes at end of table.

MANUFACTURES--SUMMARY STATISTICS

GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY INDUSTRY SPECIALIZATION
FOR THE UNITED STATES: 1954--Continued

Ind. code	Industry by percent of specialization	Estab- lish- ments, number	All employees		Production workers			Value added by manufacture	Cost of materials, etc.	Value of shipments
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
3442	METAL DOORS, SASH AND TRIM (entire industry).....	1,106	43,284	184,174	33,028	66,490	125,317	334,956	303,545	638,501
	Establishments with:									
	90% or more specialization.....	908	28,675	118,056	22,251	44,928	80,823	218,617	208,797	427,415
	75-89% specialization.....	72	4,096	17,989	2,741	5,427	10,166	32,998	26,014	59,013
	50-74% specialization.....	90	9,365	44,476	7,109	14,220	31,789	77,267	63,289	140,557
	All other ¹	36	1,147	3,653	925	1,913	2,537	6,073	5,443	11,516
3443	BOILER SHOP PRODUCTS (entire industry).....	977	74,373	342,069	57,217	115,994	239,967	578,568	555,102	1,133,670
	Establishments with:									
	90% or more specialization.....	651	32,278	150,702	24,315	49,624	102,795	272,185	260,434	532,619
	75-89% specialization.....	114	12,577	54,832	10,029	19,918	39,908	84,896	82,474	167,370
	50-74% specialization.....	148	19,421	92,558	14,788	29,952	64,620	141,924	139,748	281,673
	All other ¹	64	10,097	43,977	8,084	16,499	32,643	79,561	72,445	152,006
3444	SHEET-METAL WORK (entire industry).....	2,421	50,190	227,272	38,597	77,639	155,971	380,327	358,151	738,481
	Establishments with:									
	90% or more specialization.....	1,976	29,984	135,448	23,339	46,466	92,644	228,921	202,917	431,842
	75-89% specialization.....	95	3,635	16,734	2,852	5,808	11,867	26,075	17,447	43,522
	50-74% specialization.....	179	7,587	34,385	5,607	11,400	22,650	57,467	52,049	109,517
	All other ¹	171	8,983	40,703	6,799	13,964	28,808	67,863	85,736	153,599
3461	VITREOUS-ENAMELED PRODUCTS (entire industry).....	51	7,272	25,366	6,040	11,089	19,270	36,618	28,904	65,523
	Establishments with:									
	90% or more specialization.....	31	2,333	7,476	2,028	3,737	5,825	10,959	7,656	18,616
	75-89% specialization.....	8	1,354	4,657	1,126	1,966	3,428	6,843	5,272	12,115
	50-74% specialization.....	6	2,091	6,883	1,769	3,281	5,335	9,758	6,929	16,687
	All other ¹	6	1,494	6,350	1,116	2,104	4,682	9,056	9,046	18,103
3463	METAL STAMPINGS (entire industry).....	2,269	128,200	569,467	106,298	214,598	421,482	923,939	803,605	1,727,544
	Establishments with:									
	90% or more specialization.....	1,508	65,465	280,050	55,010	110,545	208,430	460,398	416,217	876,616
	75-89% specialization.....	212	17,165	77,591	14,172	29,159	56,527	126,269	104,780	231,050
	50-74% specialization.....	280	36,052	170,837	29,199	59,199	126,066	269,330	225,973	495,304
	All other ¹	269	9,517	40,988	7,916	15,693	30,457	67,940	56,633	124,574
3471	LIGHTING FIXTURES (entire industry).....	1,228	45,078	181,951	36,361	73,660	128,759	323,711	317,858	641,569
	Establishments with:									
	90% or more specialization.....	1,098	27,962	106,029	22,601	45,524	73,259	200,559	215,252	415,812
	75-89% specialization.....	50	7,877	34,306	6,418	13,160	25,557	58,596	54,958	113,554
	50-74% specialization.....	55	7,692	34,823	6,134	12,463	25,422	51,234	36,147	87,382
	All other ¹	25	1,546	6,792	1,206	2,511	4,519	13,321	11,499	24,820
3481	NAILS AND SPIKES (entire industry).....	77	2,701	10,420	2,324	4,776	7,550	18,447	15,330	33,778
	Establishments with:									
	90% or more specialization.....	63	1,710	6,115	1,499	2,962	4,585	10,689	11,182	21,872
3489	WIREWORK, N.E.C. (entire industry).....	1,275	59,929	243,904	50,067	99,329	181,835	412,368	332,397	744,766
	Establishments with:									
	90% or more specialization.....	1,048	41,843	169,252	35,098	70,159	126,805	284,585	231,386	515,971
	75-89% specialization.....	78	5,630	22,103	4,793	9,347	16,558	36,384	35,865	72,250
	50-74% specialization.....	97	6,908	28,847	5,682	11,013	20,989	55,541	42,018	97,760
	All other ¹	52	5,547	23,701	4,492	8,809	17,482	35,857	22,926	58,784
3491	METAL BARRELS, DRUMS AND PAILS (entire industry).....	93	10,585	48,501	8,687	17,924	37,058	85,865	131,374	217,239
	Establishments with:									
	90% or more specialization.....	75	5,488	24,650	4,631	9,824	19,383	49,456	78,741	128,198
3492	SAFES AND VAULTS (entire industry).....	26	3,442	15,030	2,581	5,050	10,341	28,974	11,054	40,029
	Establishments with:									
	90% or more specialization.....	20	1,217	5,004	1,028	1,991	3,899	12,232	4,926	17,159
3493	STEEL SPRINGS (entire industry).....	101	7,078	33,304	5,650	11,429	24,510	50,152	65,540	115,692
	Establishments with:									
	90% or more specialization.....	83	3,426	15,815	2,732	5,412	11,520	24,305	33,202	57,508
3494	BOLTS, NUTS, WASHERS, AND RIVETS (entire industry).....	457	53,729	246,235	42,309	86,427	173,019	411,662	287,863	699,523
	Establishments with:									
	90% or more specialization.....	344	37,921	173,742	29,876	60,773	122,468	288,861	208,622	497,481
	75-89% specialization.....	47	7,045	34,203	5,621	12,361	24,674	67,377	42,068	109,446
	50-74% specialization.....	38	4,652	19,549	3,491	6,432	12,573	26,631	17,902	44,533
	All other ¹	28	4,109	18,741	3,320	6,859	13,303	28,791	19,270	48,062
3499	FABRICATED METAL PRODUCTS, N.E.C. (entire industry).....	1,026	18,069	68,191	14,556	28,228	47,982	129,464	108,352	237,815
	Establishments with:									
	90% or more specialization.....	802	10,625	38,523	8,466	16,265	26,743	74,223	64,072	138,295
	75-89% specialization.....	66	1,769	6,797	1,412	2,755	4,730	15,309	10,726	26,036
	50-74% specialization.....	84	3,921	15,778	3,238	6,492	11,558	27,698	23,239	50,936
	All other ¹	74	1,753	7,093	1,438	2,715	4,950	12,233	10,313	22,547

See footnotes at end of table.

GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY INDUSTRY SPECIALIZATION
FOR THE UNITED STATES: 1954--Continued

Ind. code	Industry by percent of specialization	Estab- lish- ments, number	All employees		Production workers			Value added by manufacture	Cost of materials, etc.	Value of shipments
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
3511	STEAM ENGINES AND TURBINES (entire industry).....	22	30,178	158,861	21,382	44,821	109,650	295,367	154,673	450,041
	Establishments with:									
	90% or more specialization.....	11	14,288	75,484	10,340	21,952	54,263	158,269	79,206	237,475
	75-89% specialization.....	5	11,804	63,817	8,063	16,982	42,640	106,022	55,177	161,199
3519	INTERNAL COMBUSTION ENGINES (entire industry).....	119	51,777	241,125	39,273	77,139	168,696	394,763	496,263	891,027
	Establishments with:									
	90% or more specialization.....	82	25,664	119,965	19,237	37,887	83,018	219,701	302,530	522,232
	75-89% specialization.....	10	7,854	35,976	5,621	11,108	22,895	58,062	69,812	127,875
	50-74% specialization.....	21	16,169	75,459	12,800	24,741	55,785	105,654	109,533	215,187
	All other ¹	6	2,090	9,725	1,614	3,402	6,998	11,345	14,387	25,732
3521	TRACTORS (entire industry).....	154	64,742	287,118	49,543	95,261	205,993	516,484	661,489	1,177,974
	Establishments with:									
	90% or more specialization.....	102	30,167	134,355	22,147	41,852	91,566	231,832	400,396	632,229
	75-89% specialization.....	21	5,093	23,546	3,716	7,183	15,897	35,311	38,796	74,108
	50-74% specialization.....	20	28,304	123,979	22,816	44,590	94,921	242,721	215,052	457,774
	All other ¹	11	1,177	5,237	863	1,636	3,609	6,618	7,244	13,862
3522	FARM MACHINERY (EXCEPT TRACTORS) (entire industry)....	1,206	74,376	315,033	55,971	109,806	217,698	533,886	561,798	1,095,685
	Establishments with:									
	90% or more specialization.....	948	46,798	197,171	35,555	70,308	137,218	346,102	387,640	733,743
	75-89% specialization.....	92	11,024	47,650	8,287	16,068	33,621	79,449	71,532	150,981
	50-74% specialization.....	115	11,760	49,777	9,007	17,373	34,871	75,455	75,418	150,874
	All other ¹	51	4,792	20,434	3,121	6,056	11,986	32,879	27,206	60,086
3531	CONSTRUCTION AND MINING MACHINERY (entire industry)....	626	75,698	347,698	55,563	110,794	225,637	582,670	549,662	1,132,333
	Establishments with:									
	90% or more specialization.....	447	42,253	193,065	31,711	63,452	126,920	335,811	348,992	684,804
	75-89% specialization.....	55	7,692	34,656	5,682	11,499	22,773	59,664	45,720	105,385
	50-74% specialization.....	82	17,835	84,361	12,665	25,328	53,999	136,598	122,206	258,805
	All other ¹	42	7,917	35,616	5,503	10,515	21,944	50,595	32,742	83,338
3532	OIL-FIELD MACHINERY AND TOOLS (entire industry).....	345	33,687	161,802	24,143	49,577	102,320	318,737	194,645	513,383
	Establishments with:									
	90% or more specialization.....	275	22,672	111,373	16,223	33,459	69,670	241,328	131,250	372,579
	75-89% specialization.....	18	3,217	14,146	2,306	4,202	8,673	19,336	16,912	36,249
	50-74% specialization.....	32	5,345	25,135	3,824	8,255	16,683	40,013	29,937	69,951
	All other ¹	20	2,453	11,148	1,788	3,658	7,294	18,058	16,545	34,604
3541	MACHINE TOOLS (entire industry).....	639	80,959	432,290	62,106	133,247	302,682	788,219	358,710	1,146,932
	Establishments with:									
	90% or more specialization.....	395	38,135	208,719	29,382	63,523	145,275	393,995	195,739	589,737
	75-89% specialization.....	69	16,558	93,886	12,551	27,212	65,532	179,829	69,574	249,403
	50-74% specialization.....	85	21,503	105,082	16,316	34,401	74,276	175,968	78,888	254,857
	All other ¹	90	4,761	24,602	3,855	8,109	17,598	38,425	14,508	52,934
3542	METALWORKING MACHINERY (entire industry).....	501	59,468	293,799	44,277	92,342	202,459	513,279	326,619	839,899
	Establishments with:									
	90% or more specialization.....	319	28,411	142,579	21,076	43,890	96,926	246,527	143,928	390,455
	75-89% specialization.....	55	17,157	85,895	12,897	27,185	60,022	153,849	96,941	250,791
	50-74% specialization.....	81	10,166	48,044	7,667	15,926	34,912	84,878	60,554	145,433
	All other ¹	46	3,732	17,280	2,636	5,340	10,598	28,024	25,195	53,219
3544	SPECIAL DIES AND TOOLS (entire industry).....	4,377	77,418	458,162	65,475	146,912	366,265	697,004	234,536	931,542
	Establishments with:									
	90% or more specialization.....	3,276	47,835	285,079	40,674	91,757	231,118	432,587	139,114	571,702
	75-89% specialization.....	237	5,653	33,412	4,741	10,549	25,934	49,784	21,016	70,800
	50-74% specialization.....	408	15,804	95,966	13,246	29,790	75,515	145,350	48,860	194,210
	All other ¹	456	8,126	43,704	6,812	14,815	33,697	69,283	25,545	94,829
3545	METALWORKING MACHINERY ATTACHMENTS (entire industry)...	1,022	44,877	212,665	34,467	69,871	146,854	351,607	125,096	476,704
	Establishments with:									
	90% or more specialization.....	798	29,084	134,699	22,657	45,511	94,343	223,575	73,708	297,285
	75-89% specialization.....	58	5,942	27,811	4,550	9,189	19,079	42,990	13,649	56,640
	50-74% specialization.....	88	7,164	36,953	5,191	10,845	24,514	64,226	29,225	93,452
	All other ¹	78	2,685	13,201	2,068	4,324	8,917	20,815	8,512	29,327
3551	FOOD-PRODUCTS MACHINERY (entire industry).....	672	33,205	152,518	23,717	49,009	98,570	256,240	148,022	404,261
	Establishments with:									
	90% or more specialization.....	530	20,282	92,239	14,461	29,465	59,421	155,203	93,786	248,989
	75-89% specialization.....	41	3,201	15,154	2,301	4,658	9,202	24,049	15,152	39,201
	50-74% specialization.....	66	4,882	21,218	3,426	7,163	13,479	34,843	23,672	58,515
	All other ¹	35	4,838	23,906	3,528	7,722	16,467	42,144	15,411	57,555
3552	TEXTILE MACHINERY (entire industry).....	535	36,595	145,253	28,093	55,733	98,668	217,560	119,228	336,785
	Establishments with:									
	90% or more specialization.....	435	23,280	89,796	17,975	35,640	61,042	130,438	81,218	211,654
	75-89% specialization.....	30	6,543	27,467	5,294	10,367	20,343	42,387	16,405	58,792
	50-74% specialization.....	48	6,095	25,355	4,270	8,584	15,414	40,333	19,292	59,625
	All other ¹	22	677	2,635	553	1,141	1,866	4,401	2,312	6,714

See footnotes at end of table.

MANUFACTURES—SUMMARY STATISTICS

GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY INDUSTRY SPECIALIZATION
FOR THE UNITED STATES: 1954--Continued

Ind. code	Industry by percent of specialization	Estab- lish- ments, number	All employees		Production workers			Value added by manufacture	Cost of materials, etc.	Value of shipments
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
3553	WOODWORKING MACHINERY (entire industry).....	249	11,973	53,821	8,839	17,771	35,224	101,721	65,438	167,160
	Establishments with:									
	90% or more specialization.....	188	5,450	23,815	4,114	8,453	15,597	48,692	29,407	78,099
	75-89% specialization.....	22	3,220	15,552	2,355	4,586	9,998	23,635	18,080	41,715
	50-74% specialization.....	30	3,161	14,003	2,265	4,519	9,316	28,693	17,531	46,224
	All other ¹	9	140	451	104	211	312	700	420	1,121
3554	PAPER-INDUSTRIES MACHINERY (entire industry).....	169	15,003	73,713	11,516	23,745	50,057	112,565	84,071	196,635
	Establishments with:									
	90% or more specialization.....	114	7,738	38,585	6,066	12,397	26,762	56,986	49,922	106,909
	75-89% specialization.....	14	2,133	10,520	1,497	3,218	6,102	16,767	13,011	29,778
	50-74% specialization.....	24	3,501	17,085	2,658	5,408	11,802	27,306	15,100	42,405
	All other ¹	17	1,631	7,522	1,293	2,721	5,390	11,505	6,037	17,542
3559	SPECIAL-INDUSTRY MACHINERY, N.E.C. (entire industry)...	917	47,007	218,553	33,997	69,310	141,160	352,943	227,573	580,515
	Establishments with:									
	90% or more specialization.....	639	22,859	106,402	17,154	34,763	70,768	172,328	111,760	284,088
	75-89% specialization.....	93	6,600	30,403	4,725	9,482	18,511	52,638	31,886	84,525
	50-74% specialization.....	127	11,205	50,414	7,322	15,060	29,847	81,080	56,555	137,636
	All other ¹	58	6,341	31,333	4,794	10,004	22,033	46,896	27,370	74,266
3561	PUMPS AND COMPRESSORS (entire industry).....	496	60,324	272,632	41,269	82,859	168,613	498,011	392,862	890,873
	Establishments with:									
	90% or more specialization.....	363	30,977	135,539	21,643	42,862	84,277	263,046	234,059	497,106
	75-89% specialization.....	33	3,401	15,028	2,426	4,931	9,798	28,117	19,553	47,671
	50-74% specialization.....	71	18,597	89,565	12,171	25,270	54,181	153,090	108,023	261,114
	All other ¹	29	7,348	32,499	5,028	9,794	20,356	53,757	31,224	84,982
3562	ELEVATORS AND ESCALATORS (entire industry).....	131	10,257	49,518	7,017	14,164	31,766	102,106	58,918	161,024
	Establishments with:									
	90% or more specialization.....	104	3,869	18,504	2,534	5,083	10,381	32,146	21,334	53,480
	75-89% specialization.....	13	3,897	19,312	2,617	5,411	12,609	50,784	27,653	78,437
3563	CONVEYORS (entire industry).....	389	32,370	161,414	22,265	46,039	95,786	286,919	192,304	479,224
	Establishments with:									
	90% or more specialization.....	251	11,242	56,497	7,949	16,217	34,736	98,649	73,674	172,323
	75-89% specialization.....	41	5,753	28,919	3,938	8,129	17,553	53,171	39,769	92,941
	50-74% specialization.....	70	11,833	58,734	7,820	16,381	32,560	106,366	56,422	162,789
	All other ¹	27	3,541	17,263	2,555	5,311	10,936	28,733	22,437	51,171
3564	BLOWERS AND FANS (entire industry).....	214	18,125	80,850	13,724	27,349	54,033	151,272	110,552	261,825
	Establishments with:									
	90% or more specialization.....	152	7,839	33,981	6,000	11,565	22,343	64,908	53,115	118,023
	75-89% specialization.....	22	5,011	23,816	3,463	6,955	14,903	41,564	22,438	64,003
	50-74% specialization.....	27	3,651	16,397	2,939	6,111	11,620	28,195	25,597	53,793
	All other ¹	13	1,623	6,655	1,320	2,717	5,165	16,604	9,401	26,006
3565	INDUSTRIAL TRUCKS AND TRACTORS (entire industry).....	245	15,797	71,824	11,061	22,123	44,813	123,044	122,065	245,110
	Establishments with:									
	90% or more specialization.....	153	8,102	36,986	5,774	11,639	24,164	68,681	73,127	141,808
	75-89% specialization.....	35	4,715	21,289	3,026	5,874	11,675	35,086	29,649	64,736
	50-74% specialization.....	41	1,920	8,253	1,450	2,877	5,461	11,556	12,321	23,878
	All other ¹	16	1,059	5,295	809	1,731	3,512	7,719	6,967	14,687
3566	POWER-TRANSMISSION EQUIPMENT (entire industry).....	471	49,580	231,636	37,903	76,209	160,037	393,984	209,648	603,633
	Establishments with:									
	90% or more specialization.....	365	32,341	149,526	25,274	50,673	105,985	260,927	134,361	395,289
	75-89% specialization.....	31	5,311	27,115	3,442	7,126	15,835	39,499	24,202	63,701
	50-74% specialization.....	46	9,838	45,402	7,634	15,183	32,884	79,146	45,306	124,453
	All other ¹	29	2,088	9,592	1,551	3,225	5,331	14,411	5,778	20,190
3567	INDUSTRIAL FURNACES AND OVENS (entire industry).....	167	8,415	42,351	5,050	10,403	20,975	81,399	78,732	160,132
	Establishments with:									
	90% or more specialization.....	121	4,325	21,859	2,493	4,962	9,803	44,417	49,543	93,960
	75-89% specialization.....	8	602	3,332	320	685	1,376	5,621	4,210	9,832
	50-74% specialization.....	27	2,795	13,593	1,783	3,714	7,788	23,070	18,696	41,767
	All other ¹	11	693	3,567	452	1,041	2,007	8,289	6,282	14,572
3568	MECHANICAL STOKERS (entire industry).....	25	1,118	5,138	766	1,453	2,820	8,976	4,797	13,774
	Establishments with:									
	90% or more specialization.....	15	493	2,481	271	492	1,041	3,345	2,604	5,949
	75-89% specialization.....	3	134	380	110	201	319	951	586	1,537
3569	GENERAL INDUSTRIAL MACHINERY, N.E.C. (entire industry).	466	27,927	131,575	17,837	36,513	73,929	213,340	157,159	370,499
	Establishments with:									
	90% or more specialization.....	338	13,326	61,454	8,447	17,075	33,629	105,094	73,039	178,133
	75-89% specialization.....	37	3,669	16,616	2,308	4,658	9,413	30,244	23,120	53,364
	50-74% specialization.....	59	7,089	34,565	4,655	9,685	19,738	48,560	33,542	82,103
	All other ¹	32	3,843	18,939	2,425	5,094	11,148	29,441	27,457	56,898

See footnotes at end of table.

INDUSTRY SPECIALIZATION OF ESTABLISHMENTS

211-23

GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY INDUSTRY SPECIALIZATION
FOR THE UNITED STATES: 1954--Continued

Ind. code	Industry by percent of specialization	Estab- lish- ments, number	All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
3571	COMPUTING AND RELATED MACHINES (entire industry).....	84	56,692	275,809	45,014	88,484	200,953	412,048	202,217	614,265
	Establishments with:									
	90% or more specialization.....	49	28,377	131,243	24,351	47,183	108,708	189,527	56,132	245,659
	75-89% specialization.....	10	11,598	59,748	8,725	16,534	38,205	73,059	55,885	128,945
	50-74% specialization.....	16	16,092	82,107	11,449	23,778	52,148	144,895	87,933	232,829
	All other ¹	9	625	2,710	489	988	1,891	4,565	2,265	6,831
3572	TYPEWRITERS (entire industry).....	18	18,435	67,399	16,699	32,589	60,075	131,306	42,133	173,439
	Establishments with:									
	90% or more specialization.....	14	4,678	18,347	4,372	8,491	16,962	34,410	9,540	43,950
3579	OFFICE AND STORE MACHINES, N.E.C. ⁹ (entire industry)...	229	20,785	91,159	15,843	31,871	61,639	186,479	89,957	276,437
	Establishments with:									
	90% or more specialization.....	175	5,869	24,447	4,747	9,733	17,337	53,208	31,477	84,692
	75-89% specialization.....	14	4,553	19,849	3,643	7,224	13,301	32,561	20,646	53,208
	50-74% specialization.....	29	7,819	35,244	5,853	11,785	24,568	78,746	28,731	107,479
	All other ¹	11	2,528	11,599	1,582	3,112	6,421	21,953	9,087	31,041
3581	DOMESTIC LAUNDRY EQUIPMENT (entire industry).....	56	22,105	98,556	16,710	32,497	68,066	207,395	320,139	527,535
	Establishments with:									
	90% or more specialization.....	40	16,884	79,065	12,788	25,087	54,392	178,913	273,253	452,167
	75-89% specialization.....	5	907	2,738	717	1,157	2,021	3,755	6,085	9,841
3582	LAUNDRY AND DRY-CLEANING MACHINERY (entire industry)...	104	6,543	28,630	4,659	9,509	18,243	54,218	33,847	88,065
	Establishments with:									
	90% or more specialization.....	90	4,083	17,182	3,201	6,481	12,293	34,005	23,016	57,022
3583	SEWING MACHINES (entire industry).....	82	12,414	56,552	9,443	19,142	40,697	76,602	35,427	112,029
	Establishments with:									
	90% or more specialization.....	68	5,309	23,790	3,838	7,626	15,667	33,660	18,116	51,777
	75-89% specialization.....	9	6,524	30,520	5,112	10,554	23,286	38,097	14,267	52,365
3584	VACUUM CLEANERS (entire industry).....	39	8,383	38,867	6,408	12,717	26,903	91,850	66,057	157,907
	Establishments with:									
	90% or more specialization.....	28	3,390	16,498	2,522	4,842	11,334	45,479	35,488	80,967
	75-89% specialization.....	3	232	1,032	172	301	497	1,937	1,482	3,419
3585	REFRIGERATION MACHINERY (entire industry).....	586	128,283	567,118	98,921	194,527	396,982	1,006,193		
	Establishments with:									
	90% or more specialization.....	464	53,237	226,377	41,050	79,112	154,213	419,306		
	75-89% specialization.....	37	11,580	49,871	8,909	17,737	35,075	80,437		
	50-74% specialization.....	60	55,195	254,578	43,009	85,771	183,885	446,602	(4)	(4)
	All other ¹	25	8,270	36,291	5,952	11,906	23,807	59,846		
3586	MEASURING AND DISPENSING PUMPS (entire industry).....	32	8,367	38,531	5,893	11,790	23,658	63,160	53,383	116,543
	Establishments with:									
	90% or more specialization.....	18	2,206	9,737	1,440	2,880	5,507	19,677	18,051	37,728
	75-89% specialization.....	5	1,403	6,345	959	1,891	3,491	12,633	9,809	22,443
3589	SERVICE AND HOUSEHOLD MACHINES, N.E.C. (entire Industry).....	238	10,437	46,791	6,944	13,825	25,997	89,624	82,609	172,233
	Establishments with:									
	90% or more specialization.....	185	6,049	28,085	3,859	7,859	14,489	58,218	50,275	108,494
	75-89% specialization.....	19	943	3,711	650	1,305	2,255	7,287	7,060	14,347
	50-74% specialization.....	26	2,260	9,431	1,697	3,250	6,428	14,876	18,555	33,431
	All other ¹	8	1,184	5,563	736	1,409	2,823	9,242	6,718	15,960
3591	VALVES AND FITTINGS, EXCEPT PLUMBING (entire industry).	556	75,016	333,213	58,425	115,312	235,730	567,518	391,493	959,012
	Establishments with:									
	90% or more specialization.....	383	37,626	162,176	29,666	58,021	114,572	291,316	188,165	479,480
	75-89% specialization.....	62	19,441	87,239	15,341	29,589	64,538	144,529	104,246	248,775
	50-74% specialization.....	79	13,264	61,664	10,068	20,902	42,190	100,823	69,111	169,935
	All other ¹	32	4,683	22,134	3,349	6,799	14,428	30,850	29,971	60,821
3593	BALL AND ROLLER BEARINGS (entire industry).....	102	49,720	214,088	39,974	78,233	159,813	335,101	202,051	537,151
	Establishments with:									
	90% or more specialization.....	90	47,709	205,934	38,350	75,000	154,038	319,548	196,410	515,957
	75-89% specialization.....	6	494	2,159	422	850	1,647	3,913	1,901	5,815
3594	INDUSTRIAL PATTERNS AND MOLDS (entire industry).....	1,800	19,864	98,265	16,900	35,230	77,840	152,049	41,735	193,784
	Establishments with:									
	90% or more specialization.....	1,600	15,892	78,429	13,527	27,932	62,110	121,993	31,704	153,697
	75-89% specialization.....	52	1,045	5,129	881	1,832	4,114	7,352	2,475	9,828
	50-74% specialization.....	93	2,314	11,766	1,978	4,393	9,281	18,464	6,032	24,497
	All other ¹	55	612	2,940	513	1,071	2,333	4,238	1,523	5,761
3611	WIRING DEVICES AND SUPPLIES (entire industry).....	395	43,195	168,474	34,882	68,944	122,166	340,911	243,455	584,366
	Establishments with:									
	90% or more specialization.....	287	21,875	81,633	18,083	35,105	60,686	171,041	129,136	300,176
	75-89% specialization.....	36	8,267	34,202	6,669	13,628	25,606	83,519	51,761	135,281
	50-74% specialization.....	51	10,655	43,052	8,243	16,174	29,162	71,137	51,868	123,006
	All other ¹	21	2,397	9,586	1,886	4,035	6,712	15,212	10,689	25,902

See footnotes at end of table.

MANUFACTURES—SUMMARY STATISTICS

GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY INDUSTRY SPECIALIZATION
FOR THE UNITED STATES: 1954--Continued

Ind. code	Industry by percent of specialization	Estab- lish- ments, number	All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
3613	ELECTRICAL MEASURING INSTRUMENTS (entire industry).....	303	33,049	145,131	24,223	47,679	90,873	248,478	110,978	359,456
	Establishments with:									
	90% or more specialization.....	219	12,317	51,852	9,134	17,733	32,242	97,769	50,463	148,233
	75-89% specialization.....	28	2,747	11,318	1,946	3,938	6,385	16,533	8,880	25,413
3614	MOTORS AND GENERATORS (entire industry).....	309	112,003	494,556	82,420	161,343	334,271	844,128	544,949	1,389,078
	Establishments with:									
	90% or more specialization.....	226	53,662	234,911	40,498	77,800	159,324	431,546	248,875	680,421
	75-89% specialization.....	27	21,512	94,823	14,050	27,888	59,611	156,970	98,902	255,873
	50-74% specialization.....	43	34,503	155,782	26,046	51,965	109,000	240,836	185,527	426,364
	All other ¹	13	2,325	9,038	1,824	3,688	6,334	14,775	11,643	26,419
3615	TRANSFORMERS (entire industry).....	164	40,956	186,491	29,234	58,414	121,715	410,245	275,841	686,087
	Establishments with:									
	90% or more specialization.....	115	28,737	131,202	20,455	40,426	85,123	316,925	198,028	514,954
	75-89% specialization.....	22	6,221	27,514	4,555	9,295	18,166	32,495	47,244	79,739
3616	ELECTRICAL CONTROL APPARATUS (entire industry).....	452	79,314	361,398	56,183	111,372	228,245	700,477	396,238	1,096,715
	Establishments with:									
	90% or more specialization.....	350	44,423	195,568	32,227	64,575	125,887	397,149	238,301	635,451
	75-89% specialization.....	35	15,109	71,680	10,025	19,204	43,043	155,404	91,399	246,804
	50-74% specialization.....	46	17,639	84,552	12,374	24,463	52,809	138,104	56,806	194,910
	All other ¹	21	2,141	9,597	1,555	3,129	6,504	9,819	9,729	19,549
3617	ELECTRICAL WELDING APPARATUS (entire industry).....	119	8,186	45,719	5,484	11,400	26,427	78,645	90,200	168,846
	Establishments with:									
	90% or more specialization.....	94	5,652	32,868	3,755	7,740	18,743	54,653	68,970	123,623
	75-89% specialization.....	8	828	4,479	559	1,155	2,497	8,095	6,152	14,248
3619	ELECTRICAL PRODUCTS N.E.C., (entire industry).....	235	14,996	56,361	11,293	21,988	36,394	109,656	73,594	183,250
	Establishments with:									
	90% or more specialization.....	176	7,792	31,406	5,728	11,310	18,848	60,244	42,679	102,924
	75-89% specialization.....	12	1,132	4,800	861	1,754	3,122	7,482	4,777	12,259
	50-74% specialization.....	30	5,071	15,904	4,052	7,674	12,135	35,992	20,231	56,224
	All other ¹	17	1,000	4,251	650	1,249	2,287	5,936	5,906	11,842
3621	ELECTRICAL APPLIANCES (entire industry).....	365	48,582	201,827	38,661	75,562	145,587	424,031	371,272	795,304
	Establishments with:									
	90% or more specialization.....	282	19,460	74,736	15,764	30,959	53,721	188,187	156,062	344,250
	75-89% specialization.....	24	8,853	39,454	7,118	13,639	28,611	72,256	59,618	131,875
	50-74% specialization.....	43	10,410	43,268	7,944	15,942	30,444	74,551	67,384	141,935
	All other ¹	16	9,859	44,369	7,834	15,021	32,810	89,036	88,207	177,243
3631	INSULATED WIRE AND CABLE (entire industry).....	136	14,410	59,011	11,579	26,672	42,142	110,317	212,693	323,011
	Establishments with:									
	90% or more specialization.....	113	12,264	50,624	9,824	22,881	36,391	94,772	187,560	282,333
	75-89% specialization.....	10	996	3,793	782	1,750	2,570	6,131	9,412	15,544
	50-74% specialization.....	5	609	2,764	550	1,196	1,775	5,250	10,767	16,017
	All other ¹	8	541	1,829	421	844	1,404	4,163	4,953	9,117
3641	ENGINE ELECTRICAL EQUIPMENT (entire industry).....	169	46,349	200,279	37,219	74,147	146,769	339,251	247,872	587,124
	Establishments with:									
	90% or more specialization.....	113	11,700	44,988	10,038	19,057	33,607	85,155	61,651	146,807
	75-89% specialization.....	14	25,455	119,170	20,294	41,411	90,129	200,302	150,824	351,127
	50-74% specialization.....	24	3,976	13,776	3,205	6,157	8,821	22,251	14,694	36,945
	All other ¹	18	5,217	22,345	3,680	7,521	14,211	31,541	20,702	52,244
3661	RADIOS AND RELATED PRODUCTS (entire industry).....	1,753	293,998	1,130,378	220,867	435,056	742,732	2,130,207	(⁴)	(⁴)
	Establishments with:									
	90% or more specialization.....	1,439	193,837	714,184	147,466	289,091	478,664	1,382,402	(⁴)	(⁴)
	75-89% specialization.....	105	40,145	153,275	31,423	61,625	104,960	285,829	(⁴)	(⁴)
	50-74% specialization.....	119	42,377	189,308	30,258	60,933	116,314	353,710	(⁴)	(⁴)
	All other ¹	90	17,637	73,610	11,719	23,405	42,793	108,265	(⁴)	(⁴)
3662	ELECTRONIC TUBES (entire industry).....	157	70,950	254,854	57,856	112,052	186,882	461,904	247,278	709,183
	Establishments with:									
	90% or more specialization.....	133	64,716	228,882	53,197	103,078	170,147	412,908	231,271	644,179
	75-89% specialization.....	5	1,675	7,149	1,246	2,440	4,575	8,514	4,891	13,405
	50-74% specialization.....	12	3,955	17,002	2,838	5,410	10,490	38,201	11,003	49,204
	All other ¹	7	602	1,820	574	1,123	1,669	2,281	112	2,393
3669	COMMUNICATION EQUIPMENT, N.E.C.,(entire industry).....	141	10,053	43,079	6,184	11,942	23,035	66,769	33,424	100,194
	Establishments with:									
	90% or more specialization.....	120	4,274	18,180	2,714	5,224	9,654	29,760	17,437	47,198
	75-89% specialization.....	5	4,449	19,358	2,482	4,719	9,943	28,016	9,248	37,266
	50-74% specialization.....	9	1,203	5,067	907	1,846	3,170	8,319	6,390	14,710
	All other ¹	7	127	474	81	152	267	673	347	1,019

See footnotes at end of table.

INDUSTRY SPECIALIZATION OF ESTABLISHMENTS

211-25

GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY INDUSTRY SPECIALIZATION
FOR THE UNITED STATES: 1954--Continued

Ind. code	Industry by percent of specialization	Estab- lish- ments, number	All employees		Production workers			Value added by manufacture	Cost of materials, etc.	Value of shipments
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
3691	STORAGE BATTERIES (entire industry).....	308	15,670	66,872	11,899	23,244	46,415	127,503	213,869	341,374
	Establishments with:									
	90% or more specialization.....	302	15,617	66,701	11,856	23,160	46,284	127,187	213,377	340,566
3693	X-RAY AND THERAPEUTIC APPARATUS (entire industry).....	130	7,054	32,583	4,601	9,036	17,688	51,518	28,424	79,943
	Establishments with:									
	90% or more specialization.....	109	2,909	12,413	2,000	3,850	7,045	18,801	14,048	32,850
	75-89% specialization.....	6	2,505	12,731	1,345	2,758	6,140	20,377	8,726	29,104
	50-74% specialization.....	11	1,020	4,845	733	1,416	2,731	7,729	2,640	10,370
	All other ¹	4	619	2,593	522	1,010	1,771	4,610	3,009	7,619
3699	ELECTRICAL PRODUCTS, N.E.C. (entire industry).....	245	8,506	28,545	6,979	13,236	19,608	60,472	58,772	119,244
	Establishments with:									
	90% or more specialization.....	187	5,152	16,594	4,337	8,256	11,846	33,648	38,358	72,006
	75-89% specialization.....	15	1,439	5,582	1,004	1,929	3,189	14,210	8,707	22,918
	50-74% specialization.....	32	1,615	5,379	1,392	2,587	3,995	10,874	9,785	20,660
	All other ¹	11	299	989	244	463	577	1,739	1,920	3,660
3717	MOTOR VEHICLES AND PARTS (entire industry).....	1,226	649,274	3,214,827	545,359	1,125,912	2,569,419	6,111,554	(4)	(4)
	Establishments with:									
	90% or more specialization.....	944	523,476	2,610,835	443,697	919,409	2,112,921	5,146,385		
	75-89% specialization.....	92	57,795	289,122	46,851	97,768	221,358	479,950		
	50-74% specialization.....	124	41,569	193,396	33,245	64,857	142,017	273,789		
	All other ¹	66	26,433	121,473	21,564	43,877	93,122	211,429		
3713	TRUCK AND BUS BODIES (entire industry).....	564	18,689	76,050	15,175	30,652	55,433	112,834	119,677	232,514
	Establishments with:									
	90% or more specialization.....	451	11,951	48,065	9,829	19,907	35,487	68,795	73,520	142,317
	75-89% specialization.....	41	2,667	10,767	2,121	4,125	7,769	17,969	16,920	34,889
	50-74% specialization.....	48	3,112	13,218	2,475	5,160	9,413	20,710	20,589	41,299
	All other ¹	24	959	4,000	748	1,458	2,763	5,359	8,647	14,007
3715	TRUCK TRAILERS (entire industry).....	130	16,381	72,904	13,023	26,197	52,352	113,469	192,041	305,510
	Establishments with:									
	90% or more specialization.....	72	7,727	32,942	6,367	12,874	25,639	56,828	96,453	153,281
	75-89% specialization.....	26	4,551	19,773	3,782	7,462	14,970	28,749	49,117	77,867
	50-74% specialization.....	26	2,567	11,591	1,966	4,013	7,870	18,574	28,043	46,618
	All other ¹	6	1,535	8,598	907	1,847	3,871	9,317	18,427	27,744
3721	AIRCRAFT ¹⁰ (entire industry).....	72	457,618	2,277,320	320,445	654,781	1,441,632	3,348,876	2,918,271	6,267,147
	Establishments with:									
	90% or more specialization.....	39	274,297	1,359,309	185,312	379,206	825,450	2,002,566	1,893,354	3,895,920
	75-89% specialization.....	15	136,674	684,043	102,696	209,941	466,984	1,002,626	750,837	1,753,463
	50-74% specialization.....	8	25,271	126,789	15,710	32,096	70,466	195,847	175,306	371,153
	All other ¹	10	21,376	107,178	16,727	33,537	78,732	147,835	98,772	246,607
3722	AIRCRAFT ENGINES (entire industry).....	234	167,383	819,181	117,277	243,536	522,850	1,435,443	1,753,507	3,188,950
	Establishments with:									
	90% or more specialization.....	149	120,545	584,667	82,827	172,090	366,360	1,033,499	1,362,847	2,396,346
	75-89% specialization.....	29	24,069	125,089	16,432	34,830	77,366	217,250	296,270	513,521
	50-74% specialization.....	30	15,224	74,084	11,770	23,771	52,449	132,682	57,872	190,554
	All other ¹	26	7,544	35,340	6,247	12,844	26,674	52,011	36,517	88,529
3723	AIRCRAFT PROPELLERS (entire industry).....	16	16,523	78,058	11,647	22,179	49,135	108,415	101,679	210,094
	Establishments with:									
	90% or more specialization.....	7	4,050	18,728	2,808	4,638	10,423	19,957	21,299	41,256
3729	AIRCRAFT EQUIPMENT, N.E.C. (entire industry).....	1,082	180,946	874,252	136,619	285,823	611,683	1,394,886	947,651	2,342,536
	Establishments with:									
	90% or more specialization.....	604	100,830	486,517	78,968	165,630	353,959	804,685	523,573	1,328,259
	75-89% specialization.....	65	29,677	148,731	20,221	43,588	94,279	215,084	141,689	356,773
	50-74% specialization.....	115	36,063	171,708	26,174	53,320	114,392	268,751	233,186	501,937
	All other ¹	298	14,375	67,296	11,254	23,284	49,052	106,365	49,201	155,566
3731	SHIP BUILDING AND REPAIRING ¹⁰ (entire industry).....	355	109,451	504,470	96,196	187,982	421,791	691,908	385,980	1,077,889
	Establishments with:									
	90% or more specialization.....	284	72,610	331,638	64,401	125,733	279,047	453,492	237,464	690,957
	75-89% specialization.....	22	25,865	120,916	22,504	43,863	101,864	169,396	102,342	271,738
	50-74% specialization.....	21	6,755	34,139	5,572	11,377	26,223	44,816	31,173	75,990
	All other ¹	28	4,220	17,777	3,719	7,008	14,656	24,203	15,001	39,204
3732	BOAT BUILDING AND REPAIRING (entire industry).....	1,154	16,900	57,599	14,709	28,630	47,112	84,507	69,861	154,369
	Establishments with:									
	90% or more specialization.....	1,006	14,047	47,876	12,224	23,973	39,212	66,575	55,726	122,302
	75-89% specialization.....	21	390	1,315	328	622	986	2,225	2,060	4,285
	50-74% specialization.....	37	1,173	4,418	1,024	1,934	3,631	9,417	4,677	14,095
	All other ¹	90	1,289	3,989	1,131	2,099	3,282	6,289	7,397	13,686
3742	RAILROAD AND STREET CARS (entire industry).....	57	30,683	139,261	23,828	44,969	102,457	215,224	280,542	495,767
	Establishments with:									
	90% or more specialization.....	39	12,424	52,694	10,143	18,980	39,449	102,737	144,337	247,074

See footnotes at end of table.

MANUFACTURES—SUMMARY STATISTICS

GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY INDUSTRY SPECIALIZATION
FOR THE UNITED STATES: 1954—Continued

Ind. code	Industry by percent of specialization	Estab- lish- ments, number	All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
3811	SCIENTIFIC INSTRUMENTS (entire industry).....	370	45,315	217,831	30,797	64,264	134,801	356,713	224,203	580,916
	Establishments with:									
	90% or more specialization.....	271	19,189	87,518	12,482	25,334	49,487	143,594	99,563	243,158
	75-89% specialization.....	20	6,372	30,259	4,641	9,525	20,364	54,185	41,775	95,961
	50-74% specialization.....	50	13,894	70,795	9,228	19,822	44,035	110,877	69,204	180,082
	All other ¹	29	5,859	29,258	4,444	9,582	20,914	48,055	13,659	61,715
3821	MECHANICAL MEASURING INSTRUMENTS (entire industry)....	614	69,422	302,624	48,229	97,903	189,887	542,602	261,655	804,257
	Establishments with:									
	90% or more specialization.....	482	42,392	182,728	29,676	60,541	117,136	346,616	157,693	504,309
	75-89% specialization.....	45	10,755	47,660	7,431	15,218	29,823	83,154	43,423	126,578
	50-74% specialization.....	53	12,752	56,745	8,797	17,483	33,777	88,583	46,783	135,366
	All other ¹	34	3,522	15,490	2,323	4,660	9,150	24,247	13,755	38,003
3831	OPTICAL INSTRUMENTS AND LENSES (entire industry).....	205	12,658	58,178	9,447	18,555	38,251	86,380	31,268	117,649
	Establishments with:									
	90% or more specialization.....	173	4,815	21,915	3,690	7,476	14,421	35,346	15,779	51,126
	75-89% specialization.....	7	2,240	8,979	1,754	3,291	6,365	11,728	2,681	14,409
	50-74% specialization.....	14	5,513	26,897	3,935	7,655	17,230	38,866	12,614	51,480
	All other ¹	11	89	386	67	132	234	438	194	633
3841	SURGICAL AND MEDICAL INSTRUMENTS (entire industry)....	208	6,562	23,223	5,267	11,012	17,398	41,656	20,993	62,649
	Establishments with:									
	90% or more specialization.....	172	3,497	12,986	2,769	5,481	8,892	21,119	9,654	30,773
	75-89% specialization.....	10	2,324	7,897	1,891	4,366	6,785	16,470	9,201	25,671
	50-74% specialization.....	13	570	1,601	460	871	1,149	2,642	1,591	4,233
	All other ¹	13	170	738	145	293	571	1,424	546	1,971
3842	SURGICAL APPLIANCES AND SUPPLIES (entire industry)....	652	24,457	98,035	16,737	32,536	54,890	179,209	159,239	338,449
	Establishments with:									
	90% or more specialization.....	564	12,256	41,846	9,102	17,225	26,572	85,551	66,992	152,544
	75-89% specialization.....	26	5,740	29,532	3,299	6,753	13,337	46,819	48,493	95,313
	50-74% specialization.....	36	5,582	23,774	3,623	7,224	13,070	41,928	41,686	83,614
	All other ¹	26	878	2,883	712	1,333	1,910	4,909	2,067	6,977
3851	OPHTHALMIC GOODS (entire industry).....	238	18,464	64,536	15,355	29,960	48,332	110,452	47,486	157,939
	Establishments with:									
	90% or more specialization.....	217	11,820	38,422	10,289	19,938	30,068	68,049	35,527	103,577
	75-89% specialization.....	4	596	1,900	510	983	1,438	3,492	1,256	4,748
	50-74% specialization.....	11	5,911	23,849	4,436	8,853	16,601	38,516	10,501	49,018
	All other ¹	6	136	364	119	185	224	394	201	595
3861	PHOTOGRAPHIC EQUIPMENT (entire industry).....	449	59,099	288,497	41,063	81,066	177,117	561,240	306,357	867,597
	Establishments with:									
	90% or more specialization.....	389	43,790	217,380	29,721	58,831	130,930	446,944	230,233	671,291
	75-89% specialization.....	20	3,972	18,169	2,561	5,181	10,051	30,410	19,302	49,712
3871	WATCHES AND CLOCKS (entire industry).....	145	25,708	103,232	20,282	39,125	67,962	179,069	150,974	330,043
	Establishments with:									
	90% or more specialization.....	105	5,511	22,911	4,381	8,352	13,458	45,519	61,902	107,422
	75-89% specialization.....	13	12,168	49,833	9,590	18,775	32,969	86,696	58,378	145,074
	50-74% specialization.....	18	4,765	18,417	4,036	7,696	13,892	26,384	15,517	41,901
	All other ¹	9	3,263	12,070	2,275	4,301	7,642	20,469	15,176	35,645
3872	WATCHCASES (entire industry).....	64	3,795	15,957	3,308	6,612	12,841	20,231	14,760	34,991
	Establishments with:									
	90% or more specialization.....	52	1,818	8,128	1,574	3,107	6,174	11,179	9,065	20,245
	75-89% specialization.....	4	794	3,409	680	1,388	2,807	3,806	2,609	6,415
3911	JEWELRY (PRECIOUS METAL) (entire industry).....	1,327	23,455	90,373	18,440	36,438	58,382	145,567	112,580	258,147
	Establishments with:									
	90% or more specialization.....	1,136	15,976	62,144	12,623	24,735	40,672	108,698	90,982	199,680
	75-89% specialization.....	27	2,848	12,684	2,033	4,352	6,874	15,503	9,469	24,973
	50-74% specialization.....	53	4,145	14,411	3,372	6,573	9,936	19,129	10,244	29,373
	All other ¹	111	484	1,133	410	777	898	2,236	1,884	4,121
3931	PIANOS (entire industry).....	27	5,759	24,079	4,945	9,508	18,596	32,436	32,287	64,723
	Establishments with:									
	90% or more specialization.....	22	3,109	12,552	2,683	5,028	10,081	19,111	19,706	38,818
3939	MUSICAL INSTRUMENTS, N.E.C. (entire industry).....	144	4,853	18,947	4,020	7,965	14,484	26,731	13,483	40,215
	Establishments with:									
	90% or more specialization.....	121	3,349	13,257	2,741	5,468	9,964	19,081	9,915	28,997
	75-89% specialization.....	5	507	1,791	430	855	1,444	2,398	1,049	3,447
	50-74% specialization.....	13	873	3,486	734	1,390	2,689	4,563	2,193	6,757
	All other ¹	5	122	411	113	251	386	688	325	1,013

See footnotes at end of table.

INDUSTRY SPECIALIZATION OF ESTABLISHMENTS

211-27

GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY INDUSTRY SPECIALIZATION
FOR THE UNITED STATES: 1954--Continued

Ind. code	Industry by percent of specialization	Estab- lish- ments, number	All employees		Production workers			Value added by manufacture	Cost of materials, etc.	Value of shipments
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
3943	CHILDREN'S VEHICLES (entire industry).....	60	6,278	24,308	5,454	10,553	19,354	36,499	40,150	76,650
	Establishments with:									
	90% or more specialization.....	35	1,428	5,312	1,214	2,327	4,088	8,412	9,322	17,735
	75-89% specialization.....	8	1,661	5,816	1,463	2,652	4,623	9,612	10,984	20,597
	50-74% specialization.....	12	2,815	11,465	2,466	4,908	9,415	16,241	18,135	34,377
	All other ¹	5	373	1,714	311	666	1,228	2,232	1,707	3,939
3951	PENS AND MECHANICAL PENCILS (entire industry).....	140	10,879	44,123	8,089	16,428	25,191	83,793	44,746	128,540
	Establishments with:									
	90% or more specialization.....	99	5,110	20,113	3,591	7,207	11,620	39,323	19,372	58,695
	75-89% specialization.....	19	4,275	18,622	3,421	6,988	10,371	35,069	17,521	52,591
	50-74% specialization.....	14	1,384	5,158	982	2,060	3,020	8,890	7,491	16,381
	All other ¹	8	109	229	94	172	179	510	361	871
3952	LEAD PENCILS AND CRAYONS (entire industry).....	60	5,029	17,135	3,794	7,775	10,802	29,224	25,667	54,892
	Establishments with:									
	90% or more specialization.....	44	3,245	10,275	2,454	4,879	6,258	16,560	17,025	33,586
	75-89% specialization.....	6	428	1,272	344	711	829	2,884	1,546	4,430
	50-74% specialization.....	5	507	1,730	427	878	1,317	4,542	2,923	7,465
	All other ¹	5	848	3,857	567	1,305	2,397	5,237	4,173	9,410
3954	ARTISTS' MATERIALS (entire industry).....	95	1,913	6,585	1,467	2,875	4,033	11,836	11,762	23,599
	Establishments with:									
	90% or more specialization.....	79	1,273	4,210	1,003	1,994	2,610	8,116	7,978	16,095
3964	NEEDLES, PINS, AND FASTENERS (entire industry).....	357	23,152	80,846	18,893	35,935	56,674	121,625	81,497	203,122
	Establishments with:									
	90% or more specialization.....	282	13,311	42,759	10,998	20,623	30,462	64,532	46,656	111,188
	75-89% specialization.....	17	2,489	8,977	1,975	3,961	5,988	12,903	7,614	20,518
	50-74% specialization.....	28	3,798	14,496	3,014	5,810	10,091	23,258	11,435	34,693
	All other ¹	30	3,553	14,613	2,903	5,539	10,132	20,930	15,792	36,722
3971	PLASTICS PRODUCTS (entire industry).....	2,439	91,967	350,227	75,689	152,179	248,975	589,254	603,645	1,192,895
	Establishments with:									
	90% or more specialization.....	2,058	63,114	240,468	52,142	104,414	170,424	414,022	430,841	844,860
	75-89% specialization.....	124	12,341	47,698	10,044	20,123	33,619	72,991	72,133	145,124
	50-74% specialization.....	135	10,938	41,810	9,042	18,483	30,495	67,477	69,092	136,569
	All other ¹	122	5,573	20,250	4,460	9,157	14,435	34,763	31,577	66,341
3981	BROOMS AND BRUSHES (entire industry).....	698	16,826	54,789	13,534	25,595	36,294	91,737	93,707	185,445
	Establishments with:									
	90% or more specialization.....	616	12,878	42,339	10,322	19,580	27,606	69,162	71,300	140,462
	75-89% specialization.....	29	1,135	3,435	928	1,722	2,415	6,038	5,967	12,006
	50-74% specialization.....	42	1,404	3,798	1,117	2,106	2,371	5,976	6,524	12,500
	All other ¹	11	1,408	5,216	1,165	2,186	3,902	10,559	9,916	20,476
3986	JEWELRY AND INSTRUMENT CASES (entire industry).....	166	8,003	25,050	6,437	12,438	16,979	37,559	26,943	64,502
	Establishments with:									
	90% or more specialization.....	139	4,450	13,429	3,826	7,478	9,727	21,370	17,954	39,324
	75-89% specialization.....	7	544	1,712	470	922	1,191	2,597	1,522	4,120
3987	LAMP SHADES (entire industry).....	325	5,025	12,542	4,524	8,394	9,957	21,492	17,184	38,677
	Establishments with:									
	90% or more specialization.....	299	4,358	10,576	3,957	7,192	8,470	18,105	15,186	33,292
	75-89% specialization.....	9	113	383	98	279	332	608	214	823
3988	MORTICIANS' GOODS (entire industry).....	563	16,729	59,233	13,302	26,499	40,001	92,024	74,117	166,141
	Establishments with:									
	90% or more specialization.....	543	15,048	51,855	11,973	23,739	34,936	79,305	67,336	146,642
	75-89% specialization.....	10	648	2,801	586	1,241	2,510	3,994	2,551	6,546
3991	BEAUTY AND BARBER-SHOP EQUIPMENT (entire industry)....	67	1,719	6,936	1,419	3,016	4,741	11,963	8,556	20,520
	Establishments with:									
	90% or more specialization.....	53	1,248	4,795	1,035	2,263	3,388	8,236	6,556	14,792
3992	FURS, DRESSED AND DYED (entire industry).....	160	3,459	16,420	3,005	4,822	13,108	23,901	5,159	29,060
	Establishments with:									
	90% or more specialization.....	66	1,360	6,544	1,198	1,787	5,151	10,036	2,705	12,741
3993	SIGNS AND ADVERTISING DISPLAYS (entire industry).....	2,620	33,581	135,578	26,205	51,681	90,602	216,666	136,674	353,340
	Establishments with:									
	90% or more specialization.....	2,409	27,472	110,226	21,467	42,229	73,786	178,747	109,259	288,006
	75-89% specialization.....	57	2,373	9,798	1,811	3,506	6,496	14,506	8,524	23,031
	50-74% specialization.....	78	1,722	6,840	1,366	2,729	4,529	10,381	7,334	17,716
	All other ¹	76	2,013	8,714	1,559	3,215	5,790	13,030	11,555	24,586

See footnotes at end of table.

MANUFACTURES—SUMMARY STATISTICS

GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY INDUSTRY SPECIALIZATION
FOR THE UNITED STATES: 1954--Continued

Ind. code	Industry by percent of specialization	Estab- lish- ments, number	All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
3997	SODA-FOUNTAIN AND BAR EQUIPMENT (entire industry)..... Establishments with: 90% or more specialization.....	50 40	1,445 954	6,422 4,230	1,129 756	2,231 1,489	4,487 3,079	10,808 6,946	9,109 6,681	19,918 13,628

¹This class includes data for establishments with less than 50 percent specialization in the primary products of the industry and establishments engaged exclusively in contract work defined in the industry. Miscellaneous small statistical adjustments are also included.

²Not shown because of the inclusion of a relatively large number of small establishments for which man-hours figures were estimated.

³Since these data are based on shipments, they exclude establishments which specialized to this extent in the production of gray goods, but which shipped them as finished fabrics (bleached or dyed).

⁴Omitted because a substantial duplication is contained in these data. This duplication results from the shipments of certain products by some establishments in the industry for use as materials by other establishments in the same industry.

⁵Plant specialization data are not shown for this industry as a whole, since specialization ratios for contractors were not computed. Such ratios would not be meaningful since they could relate to only a minor portion of the contractors' total activity, that is, production on own account from materials owned by them, and would not be representative of the activity of these establishments as a whole.

⁶This class includes data for establishments with less than 50% specialization in the industry, and miscellaneous small statistical adjustments are also included.

⁷Virtually all jobbers have specialization ratios of 90% or more.

⁸Represents data only for those plants producing nonferrous alloys from scrap.

⁹Industry 3579, Office and Store Machines, n.e.c. includes Industry 3575, Vending, Amusement, and Other Coin-operated Machines.

¹⁰The "value of shipments" column for this industry represents "value of work done."

Chapter XII.—Selected Metalworking Operations

The 1954 Census of Manufactures included a special inquiry on "Selected metalworking operations" to provide a measurement of the metalworking facilities in manufacturing. The following metalworking operations were included in this inquiry: foundry (except die casting); die casting (nonferrous metal only); forging--presses, hammers, or upsetters; electroplating; galvanizing and other hot-dip coating; heat treating or annealing of metals for production purposes; automatic screw machine department; machine shop; tool and die shop, if separate from machine shop; pattern shop (foundry patterns only--metal, wood, etc.); plate or structural fabrication; and stamping, blanking, forming or drawing. The number of establishments performing these operations, classified by size of the specific operation, is shown by industry in Table 1 and by geographic division and State in Table 2. The size distribution is based on the number of production workers usually employed in the operation. In addition, the actual number of production employees is given for the total of operations usually employing 20 or more workers. A column showing total estimated production workers for all establishments engaged in each of the metalworking operations is also included.

Information on these metalworking operations was obtained for practically all industries where such operations are consequential. In many of these industries, however, small establishments reported on a short form that did not include the inquiry on metalworking operations. Also, a few larger establishments that filed standard forms did not report their metalworking operations. This has resulted in an understatement of the number of establishments maintaining specific operations, primarily in the smallest size class, and to a much lesser degree an understatement of the total number of production workers in the operations. An approximation of the understatement is given in a separate column. This column shows the percentage of all establishments in the industry reporting metalworking operation. There is also published for each industry the percentage of all employees in the industry in establishments reporting metalworking operations. This latter percentage for nearly all

industries is over 90%. The coverage is highest in industries in which larger establishments predominate. Similar percentages are shown for geographic divisions and States.

In the 1947 Census of Manufactures, where the nature of an industry indicated that all establishments reporting on the short form had a certain metalworking operation, such establishments were considered to have maintained the operation during 1947 and were included in the lowest production worker size classification. For example, Industry 3443 respondents on the short form were included in the plate or structural fabrication operation data. For Industry 3463, they were included in the stamping operation data, and for Industry 3495 the short form respondents were included in the screw machine operation. In the 1954 Census of Manufactures, this adjustment was not made.

For a few industries, such as foundries and forge shops where the reporting form did not include the complete special inquiry on metalworking operations, the plants in the industry consist of the specified metalworking operation plus auxiliary activities. In footnotes to Table 1, 1954 data are shown for the number of establishments classified in these industries. For example, in addition to establishments shown in the table as operating foundries and die casting facilities, the number of establishments classified in the foundry industry is given in the footnote. In the State table, separate columns have been included giving the number of establishments classified in these industries in each State. Similarly, the form used by respondents in Industry 3466, Galvanizing and Other Hot-dip Coating, and in Industry 3468, Electroplating, did not include the metalworking inquiry. Consequently, data for establishments in these industries were presented in the same manner.

A limited inquiry covering machine shops and pattern shop operations was included for the foundry industry and an inquiry covering machine shops and tool and die shops was included for the forgings industry. Data for those activities are included in these tables.

MANUFACTURES—SUMMARY STATISTICS

Table 1.—SELECTED METALWORKING OPERATIONS, BY INDUSTRY: 1954

Code No.	Industry and industry group	Foundry, except die casting ¹ (excludes establishments classified in the Foundry industries)						Die casting, nonferrous metal only ¹ (excludes establishments classified in the Nonferrous foundries industry)					
		Establishments by number of production workers in the operation				Production workers		Establishments by number of production workers in the operation				Production workers	
		Total	1-4	5-19	20 or more	Actual number employed in operations having 20 or more workers	Estimated number employed in all operations	Total	1-4	5-19	20 or more	Actual number employed in operations having 20 or more workers	Estimated number employed in all operations
	Major Groups 19 and 33-37, totals.....	1,449	326	439	684	79,338	85,422	510	281	157	72	6,491	9,077
19	Ordinance and accessories.....	20	6	3	11	975	1,026	12	5	6	1	20-99	100-249
33	Primary metal industries.....	107	8	26	73	8,361	8,693	10	4	4	2	100-249	100-249
3312	Steel works and rolling mills...	50	2	9	39	5,672	5,785	...	...	...	...	...	...
335	Nonferrous rolling and drawing..	57	6	17	34	2,689	2,908	8	4	3	1	20-99	100-249
3351	Copper rolling and drawing.....	28	...	4	24	1,961	2,009	1	...	1	...	...	12
3352	Aluminum rolling and drawing.....	9	...	4	5	303	351	1	...	1	...	...	12
3359	Rolling and drawing, n.e.c.....	20	6	9	5	425	548	6	4	1	1	20-99	100-249
3392	Wire drawing.....	...	...	...	...	...	...	2	...	1	1	20-99	20-99
34	Fabricated metal products....	344	84	110	150	14,015	15,545	159	95	47	17	2,421	3,222
342	Cutlery, tools, and hardware....	79	23	32	24	1,000-2,499	1,000-2,499	74	35	28	11	1,000-2,499	1,000-2,499
3421	Cutlery.....	3	1	1	1	20-99	20-99	10	8	1	1	20-99	20-99
3422	Edge tools.....	...	...	...	...	...	...	2	...	2	...	...	24
3423	Hand tools, n.e.c.....	9	4	2	3	770	804	5	3	2	...	...	31
3425	Hand saws and saw blades.....	...	...	...	...	...	...	3	2	1	...	...	17
3429	Hardware, n.e.c.....	67	18	29	20	1,092	1,485	54	22	22	10	1,180	1,499
343	Heating and plumbing equipment..	136	7	38	91	9,798	10,272	6	3	2	1	20-99	20-99
3431	Plumbing fixtures and fittings....	64	3	17	44	5,010	5,222	4	1	2	1	20-99	20-99
3439	Heating and cooking equipment, n.e.c.....	72	4	21	47	4,788	5,050	2	2	...	...	...	5
344	Structural metal products.....	79	28	24	27	1,000-2,499	1,000-2,499	17	9	6	2	250-499	250-499
3441	Structural and ornamental products.	44	15	11	18	868	1,037	7	6	1	...	...	27
3442	Metal doors, sash, and trim.....	14	5	6	3	75	160	7	3	4	...	...	55
3443	Boiler shop products.....	13	6	2	5	875	914	2	...	...	2	250-499	250-499
3444	Sheet-metal work.....	8	2	5	1	20-99	20-99	1	...	1	...	...	12
3463	Metal stampings.....	7	4	2	1	20-99	20-99	24	18	6	...	...	117
3471	Lighting fixtures.....	15	11	3	1	20-99	100-249	28	23	2	3	858	939
3489	Wirework, n.e.c.....	7	3	3	1	20-99	20-99	3	3	...	...	...	7
349	Metal products, n.e.c.....	21	8	8	5	345	461	7	4	3	...	...	46
3492	Safes and vaults.....	1	...	...	1	20-99	20-99	...	...	...	...	...	...
3493	Steel springs.....	3	...	2	1	100-249	100-249	1	...	1	...	...	12
3494	Bolts, nuts, washers, and rivets...	4	...	2	2	20-99	100-249	5	4	1	...	...	22
3495	Screw machine products.....	4	1	2	1	20-99	20-99	1	...	1	...	...	12
3496	Collapsible tubes.....	6	5	1	...	...	25	...	...	...	...	...	...
3497	Metal foil.....	3	2	1	...	...	17	...	...	...	...	...	...
35	Machinery (except electrical)	753	151	237	365	42,506	45,728	150	82	43	25	1,631	2,352
351	Engines and turbines.....	20	1	4	15	1,000-2,499	1,000-2,499	3	...	1	2	250-499	250-499
3511	Steam engines and turbines.....	4	1	2	1	100-249	100-249	...	...	...	...	...	...
3519	Internal combustion engines.....	16	...	2	14	1,318	1,342	3	...	1	2	250-499	250-499
352	Tractors and farm machinery.....	86	14	29	43	8,343	8,726	11	7	3	1	20-99	20-99
3521	Tractors.....	15	3	1	11	5,143	5,162	2	1	1	...	...	14
3522	Farm machinery (except tractors)...	71	11	28	32	3,200	3,564	9	6	2	1	20-99	20-99
353	Construction and mining machinery	57	6	16	35	3,557	3,764	3	1	...	2	20-99	20-99
3531	Construction and mining machinery..	48	5	14	29	2,857	3,037	2	1	...	1	20-99	20-99
3532	Oil-field machinery and tools.....	9	1	2	6	700	727	1	...	...	1	20-99	20-99
354	Metalworking machinery.....	61	17	17	27	3,696	3,943	44	20	19	5	100-249	500-999
3541	Machine tools.....	19	2	6	11	1,252	1,329	4	3	1	...	...	19
3542	Metalworking machinery.....	22	5	4	13	2,223	2,283	3	...	2	1	20-99	20-99
3544	Special dies and tools.....	13	7	5	1	20-99	100-249	34	15	15	4	161	379
3545	Metalworking machinery attachments.	7	3	2	2	100-249	100-249	3	2	1	...	...	17
355	Special-industry machinery, n.e.c.....	157	36	53	68	4,984	5,710	14	10	...	4	95	120
3551	Food-products machinery.....	25	8	7	10	501	605	3	3	...	...	...	7
3552	Textile machinery.....	27	4	9	14	1,386	1,504	1	1	...	...	...	2
3553	Woodworking machinery.....	19	3	13	3	248	412	3	2	...	1	20-99	20-99
3554	Paper-industries machinery.....	21	1	8	12	1,022	1,121	...	...	...	...	...	...
3555	Printing-trades machinery.....	16	6	3	7	300	351	4	2	...	2	20-99	20-99
3559	Special-industry machinery, n.e.c..	49	14	13	22	1,527	1,717	3	2	...	1	20-99	20-99

See footnotes at end of table.

Table 1.—SELECTED METALWORKING OPERATIONS, BY INDUSTRY: 1954—Continued

Code No.	Industry and industry group	Foundry, except die casting ¹ (excludes establishments classified in the Foundry industries)						Die casting, nonferrous metal only ¹ (excludes establishments classified in the Nonferrous foundries industry)					
		Establishments by number of production workers in the operation				Production workers		Establishments by number of production workers in the operation				Production workers	
		Total	1-4	5-19	20 or more	Actual number employed in operations having 20 or more workers	Estimated number employed in all operations	Total	1-4	5-19	20 or more	Actual number employed in operations having 20 or more workers	Estimated number employed in all operations
	Machinery, except electrical—Continued												
356	General industrial machinery....	116	11	36	69	6,555	7,015	20	17	2	1	20-99	20-99
3561	Pumps and compressors.....	47	...	11	36	3,776	3,908	6	4	1	1	20-99	20-99
3562	Elevators and escalators.....	4	...	3	1	20-99	100-249	1	1	...	...	...	2
3563	Conveyors.....	16	5	5	6	402	475	1	1	...	...	...	2
3564	Blowers and fans.....	6	...	3	3	132	168	4	3	1	...	...	19
3565	Industrial trucks and tractors.....	8	1	2	5	114	141	1	1	...	...	...	2
3566	Power-transmission equipment.....	23	1	7	15	1,838	1,924	5	5	...	...	...	13
3568	Mechanical stokers.....	2	...	...	2	100-249	100-249	...	...	...	...	...	...
3569	General industrial machinery, n.e.c.	10	4	5	1	20-99	20-99	2	2	...	...	...	5
357	Office and store machines.....	8	...	3	5	250-499	500-999	8	4	4	...	...	58
3571	Computing and related machines.....	3	...	1	2	100-249	100-249	4	2	2	...	...	30
3572	Typewriters.....	...	...	...	...	...	...	1	1	...	...	...	2
3576	Scales and balances.....	3	...	...	3	322	322	...	...	...	...	...	...
3579	Office and store machines, n.e.c....	2	...	2	...	...	24	3	1	2	...	...	26
358	Service and household machines..	21	10	2	9	1,005	1,054	22	11	6	5	246	345
3581	Domestic laundry equipment.....	4	1	2	1	20-99	100-249	4	1	1	2	100-249	100-249
3583	Sewing machines.....	2	...	...	2	250-499	250-499	1	...	1	...	...	12
3584	Vacuum cleaners.....	...	...	...	...	...	...	2	...	...	2	20-99	20-99
3585	Refrigeration machinery.....	10	5	...	5	425	437	6	2	3	1	20-99	20-99
3586	Measuring and dispensing pumps.....	...	...	...	...	...	...	4	3	1	...	...	19
3589	Service and household machines, n.e.c.....	5	4	...	1	20-99	20-99	5	5	...	...	...	13
359	Miscellaneous machinery parts...	227	56	77	94	12,453	13,517	25	12	8	5	500-999	500-999
3591	Valves and fittings, except plumbing	108	11	23	74	11,325	11,628	7	3	2	2	20-99	20-99
3593	Ball and roller bearings.....	2	1	1	...	...	15	...	...	...	...	...	...
3594	Industrial patterns and molds.....	41	16	20	5	144	424	5	3	2	...	...	31
3599	Machine shops.....	76	28	33	15	984	1,450	13	6	4	3	444	507
36	Electrical machinery.....	105	36	33	36	2,500-4,999	2,500-4,999	119	71	37	11	623	1,244
361	Electrical industrial apparatus.	57	13	19	25	1,000-2,499	1,000-2,499	64	33	24	7	250-499	500-999
3611	Wiring devices and supplies.....	22	3	11	8	1,041	1,181	9	5	3	1	20-99	100-249
3612	Carbon and graphite products.....	2	2	...	...	...	5	...	...	...	...	...	...
3614	Motors and generators.....	15	4	3	8	486	532	51	24	21	6	234	546
3615	Transformers.....	1	1	...	...	...	3	...	...	...	...	...	...
3616	Electrical control apparatus.....	10	1	1	8	434	449	3	3	...	...	...	8
3617	Electrical welding apparatus.....	7	2	4	1	20-99	20-99	...	...	...	...	...	...
3619	Electrical industrial apparatus, n.e.c.....	...	...	...	...	...	...	1	1	...	...	...	2
3621	Electrical appliances.....	8	2	1	5	205	221	8	6	2	...	...	39
3631	Insulated wire and cable.....	...	...	...	...	...	...	1	1	...	...	...	2
3641	Engine electrical equipment.....	2	1	...	1	100-249	100-249	7	3	2	2	100-249	100-249
366	Communication equipment.....	9	2	4	3	138	191	13	8	3	2	100-249	100-249
3661	Radios and related products.....	5	1	3	1	20-99	20-99	9	7	1	1	100-249	100-249
3662	Electronic tubes.....	1	1	...	...	...	...	1	...	1	...	...	12
3664	Telephone and telegraph equipment..	1	...	...	1	20-99	20-99	3	1	1	1	20-99	20-99
3669	Communication equipment, n.e.c.....	2	...	1	1	20-99	20-99	...	...	...	...	...	...
369	Miscellaneous electrical products.....	29	18	9	2	20-99	100-249	26	20	6	...	...	122
3691	Storage batteries.....	26	16	8	2	20-99	100-249	26	20	6	...	...	122
3692	Primary batteries.....	2	1	1	...	...	15	...	...	...	...	...	...
3693	X-ray and therapeutic apparatus....	1	1	...	...	...	3	...	...	...	...	...	...
37	Transportation equipment.....	120	41	30	49	10,000 or more	10,000 or more	60	24	20	16	1,682	1,982
371	Motor vehicles and equipment....	35	8	4	23	5,000-9,999	5,000-9,999	29	7	9	13	1,542	1,667
3713	Truck and bus bodies.....	3	3	...	...	...	...	...	...	...	...	...	...
3715	Truck trailers.....	1	...	...	1	20-99	20-99	...	...	...	...	...	...
3716	Automobile trailers.....	2	2	...	...	...	5	1	1	...	...	...	2
3717	Motor vehicles and parts.....	29	3	4	22	8,810	8,866	28	6	9	13	1,542	1,665
372	Aircraft and parts.....	59	24	23	12	910	1,246	28	16	10	2	20-99	100-249
3721	Aircraft.....	22	9	7	6	243	349	9	2	6	1	20-99	20-99
3722	Aircraft engines.....	15	3	9	3	448	564	5	3	2	...	...	32
3729	Aircraft equipment, n.e.c.....	22	12	7	3	219	333	14	11	2	1	20-99	20-99
3731	Ship building and repairing.....	14	6	2	6	440	479	...	...	...	...	...	...
374	Railroad equipment.....	10	2	1	7	724	741	3	1	1	1	20-99	20-99
3741	Locomotives and parts.....	6	2	1	3	279	296	1	1	...	...	...	2
3742	Railroad and street cars.....	4	...	...	4	445	445	2	...	1	1	20-99	20-99
3751	Motorcycles and bicycles.....	1	...	...	1	20-99	20-99	...	...	...	...	...	...
3799	Transportation equipment, n.e.c.	1	1	...	...	...	...	...	...	...	...	...	...

See footnotes at end of table.

MANUFACTURES—SUMMARY STATISTICS

Table 1.—SELECTED METALWORKING OPERATIONS, BY INDUSTRY: 1954—Continued

Code No.	Industry and industry group	Forging—presses, hammers, or upsetters ² (excludes establishments classified in the Iron and steel forgings industry)						Electroplating ³ (excludes establishments classified in the Plating and polishing industry)					
		Establishments by number of production workers in the operation				Production workers		Establishments by number of production workers in the operation				Production workers	
		Total	1-4	5-19	20 or more	Actual number em- ployed in operations having 20 or more workers	Estimated number employed in all operations	Total	1-4	5-19	20 or more	Actual number em- ployed in operations having 20 or more workers	Estimated number employed in all operations
	Major Groups 19 and 33-37, totals.....	1,287	582	452	253	17,501	24,379	1,991	1,045	685	261	15,776	26,606
19	Ordnance and accessories.....	46	10	11	25	1,315	1,472	59	29	23	7	270	618
33	Primary metal industries.....	85	11	22	52	2,500-4,999	2,500-4,999	78	27	32	19	1,153	1,604
3312	Steel works and rolling mills...	65	4	20	41	3,410	3,660	33	7	11	15	1,051	1,200
335	Nonferrous rolling and drawing...	15	6	1	8	250-499	250-499	12	7	5	...	...	77
3351	Copper rolling and drawing.....	6	3	...	3	206	213	7	6	1	...	...	27
3352	Aluminum rolling and drawing.....	5	1	...	4	156	159	3	1	2	...	...	26
3359	Rolling and drawing, n.e.c.....	4	2	1	1	20-99	20-99	2	...	2	...	...	24
339	Primary metal industries, n.e.c.	5	1	1	3	140	154	33	13	16	4	102	326
3392	Wire drawing.....	1	1	...	...	...	2	27	11	12	4	102	273
3393	Welded and heavy-riveted pipe.....	4	...	1	3	140	152	6	2	4	...	...	53
34	Fabricated metal products....	441	208	176	57	2,799	5,431	691	345	261	85	5,126	9,120
3411	Tin cans and other tinware.....	...	...	...	...	...	...	1	1	...	...	...	2
342	Cutlery, tools, and hardware....	192	72	94	26	933	2,241	221	99	85	37	1,929	3,196
3421	Cutlery.....	31	17	12	2	20-99	250-499	25	20	5	...	...	110
3422	Edge tools.....	26	10	11	5	170	327	8	6	1	1	20-99	20-99
3423	Hand tools, n.e.c.....	79	23	43	13	396	970	39	14	23	2	20-99	250-499
3424	Files.....	8	2	4	2	20-99	100-249	...	...	...	...	...	...
3425	Hand saws and saw blades.....	5	1	3	1	20-99	20-99	3	2	1	...	...	17
3429	Hardware, n.e.c.....	43	19	21	3	164	464	146	57	55	34	1,833	2,635
343	Heating and plumbing equipment..	5	2	3	...	...	41	86	36	38	12	500-999	1,000-2,499
3431	Plumbing fixtures and fittings....	3	2	1	...	...	17	61	20	30	11	639	1,049
3439	Heating and cooking equipment, n.e.c.....	2	...	2	...	...	24	25	16	8	1	20-99	100-249
344	Structural metal products.....	118	78	31	9	500-999	1,000-2,499	37	31	4	2	100-249	100-249
3441	Structural and ornamental products.	64	47	15	2	100-249	250-499	13	12	1	...	...	42
3442	Metal doors, sash, and trim.....	15	7	5	3	94	171	14	11	3	...	...	64
3443	Boiler shop products.....	31	21	6	4	278	403	3	1	...	2	100-249	100-249
3444	Sheet-metal work.....	8	3	5	...	...	67	7	7	...	...	...	17
346	Metal stamping and coating.....	27	13	11	3	150	314	89	35	40	14	839	1,406
3461	Vitreous-enamelled products.....	...	...	...	...	...	...	2	...	2	...	...	24
3463	Metal stampings.....	27	13	11	3	150	314	87	35	38	14	839	1,382
3471	Lighting fixtures.....	12	8	4	...	...	68	98	48	41	9	1,023	1,635
348	Fabricated wire products.....	19	11	7	1	20-99	100-249	73	49	22	2	20-99	250-499
3481	Nails and spikes.....	2	1	1	...	...	14	4	4	...	...	...	10
3489	Wirework, n.e.c.....	17	10	6	1	20-99	100-249	69	45	22	2	20-99	250-499
349	Metal products, n.e.c.....	68	24	26	18	1,180	1,552	86	46	31	9	250-499	500-999
3491	Metal barrels, drums, and pails....	6	3	3	...	...	43	...	...	...	...	...	...
3492	Safes and vaults.....	...	...	...	...	...	...	4	3	1	...	...	20
3493	Steel springs.....	24	7	10	7	392	530	1	...	...	1	100-249	100-249
3494	Bolts, nuts, washers, and rivets...	34	11	12	11	788	960	67	32	27	8	283	687
3495	Screw machine products.....	4	3	1	...	...	19	13	10	3	...	...	61
3497	Metal foil.....	...	...	...	...	...	...	1	1	...	...	...	2
35	Machinery (except electrical)	457	234	159	64	3,369	5,862	436	276	123	37	1,872	4,038
351	Engines and turbines.....	7	2	3	2	20-99	100-249	17	7	10	...	...	137
3511	Steam engines and turbines.....	3	...	2	1	20-99	100-249	2	1	1	...	...	14
3519	Internal combustion engines.....	4	2	1	1	20-99	20-99	15	6	9	...	...	123
352	Tractors and farm machinery....	97	31	40	26	1,542	2,099	21	15	5	1	20-99	100-249
3521	Tractors.....	15	4	6	5	397	479	10	5	4	1	20-99	20-99
3522	Farm machinery (except tractors)...	82	27	34	21	1,145	1,620	11	10	1	...	...	37
353	Construction and mining machinery	95	49	37	9	482	1,048	28	23	5	...	...	117
3531	Construction and mining machinery..	63	38	22	3	78	437	12	10	2	...	...	49
3532	Oil-field machinery and tools.....	32	11	15	6	404	611	16	13	3	...	...	68
354	Metalworking machinery.....	67	39	23	5	100-249	500-999	64	47	16	1	20-99	250-499
3541	Machine tools.....	5	2	3	...	...	41	19	13	6	...	...	104
3542	Metalworking machinery.....	23	12	7	4	119	233	11	10	1	...	...	37
3544	Special dies and tools.....	21	14	7	...	...	119	12	6	6	...	...	87
3545	Metalworking machinery attachments.	18	11	6	1	20-99	100-249	22	18	3	1	20-99	100-249
355	Special-industry machinery, n.e.c.....	55	44	7	4	121	315	62	47	12	3	85	346
3551	Food-products machinery.....	9	9	...	...	...	23	15	13	2	...	...	57
3552	Textile machinery.....	13	9	2	2	20-99	20-99	19	15	4	...	...	85
3553	Woodworking machinery.....	12	9	2	1	20-99	20-99	4	2	1	1	20-99	20-99
3554	Paper-industries machinery.....	3	3	...	...	...	7	3	1	1	1	20-99	20-99
3555	Printing-trades machinery.....	5	4	1	...	...	22	7	4	3	...	...	46
3559	Special-industry machinery, n.e.c..	13	10	2	1	20-99	20-99	14	12	1	1	20-99	20-99

See footnotes at end of table.

SELECTED METALWORKING OPERATIONS

212-5

Table 1.—SELECTED METALWORKING OPERATIONS, BY INDUSTRY: 1954—Continued

Code No.	Industry and industry group	Forging—presses, hammers, or upsetters ² (excludes establishments classified in the Iron and steel forgings industry)						Electroplating ³ (excludes establishments classified in the Plating and polishing industry)					
		Establishments by number of production workers in the operation				Production workers		Establishments by number of production workers in the operation				Production workers	
		Total	1-4	5-19	20 or more	Actual number employed in operations having 20 or more workers	Estimated number employed in all operations	Total	1-4	5-19	20 or more	Actual number employed in operations having 20 or more workers	Estimated number employed in all operations
	Machinery (except electrical)—Continued												
356	General industrial machinery....	51	30	17	4	117	396	58	33	21	4	216	550
3561	Pumps and compressors.....	10	6	3	1	20-99	20-99	13	7	6	...	...	89
3562	Elevators and escalators.....	3	2	1	...	...	17	2	2	...	...	...	5
3563	Conveyors.....	10	6	2	2	20-99	20-99	3	2	1	...	...	17
3564	Blowers and fans.....	3	1	2	...	...	26	3	...	3	...	...	36
3565	Industrial trucks and tractors....	13	7	6	...	...	90	3	2	1	...	...	17
3566	Power-transmission equipment.....	2	1	1	...	...	14	31	18	9	4	216	369
3567	Industrial furnaces and ovens.....	2	2	...	...	...	5	1	...	1	...	...	12
3568	Mechanical stokers.....	...	...	...	...	...	...	...	...	...	...	...	...
3569	General industrial machinery, n.e.c.....	8	5	2	1	20-99	20-99	2	2	...	...	...	5
357	Office and store machines.....	5	2	1	2	100-249	100-249	44	18	13	13	500-999	1,000-2,499
3571	Computing and related machines....	1	...	...	1	20-99	20-99	21	7	8	6	449	563
3572	Typewriters.....	...	...	...	...	...	...	6	...	1	5	270	282
3576	Scales and balances.....	2	1	1	...	...	14	4	3	1	...	...	19
3579	Office and store machines, n.e.c....	2	1	...	1	100-249	100-249	13	8	3	2	20-99	100-249
358	Service and household machines..	8	4	3	1	20-99	20-99	52	28	17	7	266	540
3581	Domestic laundry equipment.....	...	...	...	...	...	...	6	2	2	2	20-99	20-99
3582	Laundry and dry-cleaning machinery.	1	1	...	...	...	2	3	3	...	...	...	8
3583	Sewing machines.....	2	1	1	...	...	15	3	2	...	1	20-99	20-99
3584	Vacuum cleaners.....	...	...	...	...	...	...	4	...	3	1	20-99	20-99
3585	Refrigeration machinery.....	2	...	1	1	20-99	20-99	25	14	8	3	133	264
3586	Measuring and dispensing pumps....	...	...	...	...	...	...	4	1	3	...	...	38
3589	Service and household machines, n.e.c.....	3	2	1	...	...	17	7	6	1	...	...	27
359	Miscellaneous machinery parts...	72	33	28	11	500-999	1,000-2,499	90	58	24	8	250-499	500-999
3591	Valves and fittings, except plumbing.....	25	7	9	9	563	688	30	20	8	2	100-249	250-499
3593	Ball and roller bearings.....	18	7	9	2	100-249	100-249	8	4	3	1	20-99	20-99
3594	Industrial patterns and molds.....	...	...	...	...	...	...	4	3	1	...	...	19
3599	Machine shops.....	29	19	10	...	...	168	48	31	12	5	244	466
36	Electrical machinery.....	70	38	25	7	392	787	457	257	154	46	2,279	4,769
361	Electrical industrial apparatus....	41	20	17	4	295	549	183	119	48	16	500-999	1,000-2,499
3611	Wiring devices and supplies.....	25	11	12	2	100-249	250-499	52	30	16	6	100-249	250-499
3612	Carbon and graphite products.....	1	...	1	...	...	12	11	10	1	...	...	37
3614	Motors and generators.....	7	3	2	2	100-249	100-249	27	13	10	4	127	280
3615	Transformers.....	2	1	1	...	...	15	9	5	3	1	20-99	20-99
3616	Electrical control apparatus.....	4	3	1	...	...	19	71	49	17	5	194	521
3617	Electrical welding apparatus.....	1	1	...	...	...	3	3	3	...	...	...	7
3619	Electrical industrial apparatus, n.e.c.....	1	1	...	...	...	2	10	9	1	...	...	34
3621	Electrical appliances.....	4	1	1	2	20-99	20-99	45	18	20	7	546	831
3631	Insulated wire and cable.....	1	1	...	...	...	2	2	1	1	...	...	14
3641	Engine electrical equipment.....	3	2	1	...	...	17	18	7	8	3	235	348
3651	Electric lamps (bulbs).....	...	...	...	...	...	...	3	1	2	...	...	26
366	Communication equipment.....	21	14	6	1	20-99	100-249	186	94	73	19	500-999	1,000-2,499
3661	Radios and related products.....	17	12	5	...	...	90	116	62	47	7	412	1,131
3662	Electronic tubes.....	1	1	...	...	...	3	27	13	13	1	20-99	100-249
3663	Phonograph records.....	...	...	...	...	...	...	14	2	9	3	107	220
3664	Telephone and telegraph equipment..	1	1	...	...	...	2	22	11	4	7	279	354
3669	Communication equipment, n.e.c....	2	...	1	1	20-99	20-99	7	6	...	1	20-99	20-99
369	Miscellaneous electrical products.....	...	...	...	...	...	...	20	17	2	1	20-99	100-249
3691	Storage batteries.....	...	...	...	...	...	...	4	3	...	1	20-99	20-99
3692	Primary batteries.....	...	...	...	...	...	...	3	2	1	...	...	17
3693	X-ray and therapeutic apparatus....	...	...	...	...	...	...	7	6	1	...	...	27
3699	Electrical products, n.e.c.....	...	...	...	...	...	...	6	6	...	...	...	15
37	Transportation equipment.....	188	81	59	48	5,000-9,999	5,000-9,999	270	111	92	67	5,076	6,457
371	Motor vehicles and equipment.....	79	24	25	30	2,500-4,999	2,400-4,999	106	45	25	36	3,439	3,851
3713	Truck and bus bodies.....	14	11	2	1	20-99	100-249	2	2	...	...	...	5
3715	Truck trailers.....	4	2	2	...	...	29	1	...	1	...	...	12
3716	Automobile trailers.....	1	...	1	...	...	12	1	1	...	...	...	2
3717	Motor vehicles and parts.....	60	11	20	29	3,864	4,131	102	42	24	36	3,439	3,832
372	Aircraft and parts.....	32	9	15	8	1,000-2,499	1,000-2,499	140	57	55	28	1,000-2,499	1,000-2,499
3721	Aircraft.....	3	2	1	...	...	17	44	14	23	7	357	668
3722	Aircraft engines.....	14	2	5	7	986	1,051	27	12	5	10	737	827
3723	Aircraft propellers.....	...	...	...	...	...	...	4	...	3	1	20-99	100-249
3729	Aircraft equipment, n.e.c.....	15	5	9	1	20-99	100-249	65	31	24	10	325	690
373	Ships and boats.....	44	34	7	3	125	294	2	1	1	...	...	14
3731	Ship building and repairing.....	36	26	7	3	125	274	2	1	1	...	...	14
3732	Boat building and repairing.....	8	8	...	...	...	20	...	...	...	...	...	...
374	Railroad equipment.....	27	8	12	7	611	775	8	3	4	1	20-99	100-249
3741	Locomotives and parts.....	7	5	2	...	...	37	4	1	3	...	...	38
3742	Railroad and street cars.....	20	3	10	7	611	738	4	2	1	1	20-99	20-99
3751	Motorcycles and bicycles.....	...	...	...	...	...	...	13	4	7	2	100-249	100-249
3799	Transportation equipment, n.e.c....	6	6	...	...	...	15	1	1	...	...	...	2

See footnotes at end of table.

MANUFACTURES—SUMMARY STATISTICS

Table 1.—SELECTED METALWORKING OPERATIONS, BY INDUSTRY: 1954—Continued

Code No.	Industry and industry group	Galvanizing and other hot-dip coating ⁴ (excludes establishments classified in the Galvanizing industry)						Heat treating or annealing of metals for production purposes					
		Establishments by number of production workers in the operation				Production workers		Establishments by number of production workers in the operation				Production workers	
		Total	1-4	5-19	20 or more	Actual number employed in operations having 20 or more workers	Estimated number employed in all operations	Total	1-4	5-19	20 or more	Actual number employed in operations having 20 or more workers	Estimated number employed in all operations
	Major Groups 19 and 33-37, totals.....	887	447	312	128	7,478	12,338	4,148	2,724	980	444	24,985	43,554
19	Ordnance and accessories.....	21	13	6	2	20-99	100-249	133	63	53	17	700	1,494
33	Primary metal industries.....	136	27	50	59	2,500-4,999	5,000-9,999	332	99	108	125	5,000-9,999	10,000 or more
3312	Steel works and rolling mills...	63	3	12	48	4,239	4,390	118	16	31	71	5,936	6,348
335	Nonferrous rolling and drawing..	12	5	6	1	20-99	100-249	104	32	35	37	2,500-4,999	2,500-4,999
3351	Copper rolling and drawing.....	10	5	4	1	20-99	100-249	52	8	19	25	1,378	1,626
3352	Aluminum rolling and drawing.....	2	...	2	...	...	24	35	14	10	11	1,269	1,424
3359	Rolling and drawing, n.e.c.....	...	...	...	...	...	...	17	10	6	1	20-99	100-249
339	Primary metal industries, n.e.c.	61	19	32	10	500-999	500-999	110	51	42	17	720	1,351
3392	Wire drawing.....	56	19	28	9	463	846	81	47	21	13	581	950
3393	Welded and heavy-riveted pipe.....	5	...	4	1	20-99	20-99	29	4	21	4	139	401
34	Fabricated metal products....	276	133	112	31	1,237	2,913	1,097	803	234	60	2,656	7,471
3411	Tin cans and other tinware.....	6	...	2	4	113	137	8	7	1	...	...	29
342	Cutlery, tools, and hardware....	33	26	5	2	20-99	100-249	339	260	61	18	561	1,943
3421	Cutlery.....	1	...	1	...	...	12	59	53	4	2	20-99	100-249
3422	Edge tools.....	3	3	...	...	...	8	61	51	6	4	99	299
3423	Hand tools, n.e.c.....	6	5	1	...	...	24	99	76	19	4	101	519
3424	Files.....	...	...	...	...	...	...	11	6	4	1	20-99	100-249
3425	Hand saws and saw blades.....	2	2	...	...	...	5	32	14	13	5	205	396
3429	Hardware, n.e.c.....	21	16	3	2	20-99	100-249	77	60	15	2	20-99	250-499
343	Heating and plumbing equipment..	28	6	20	2	20-99	250-499	48	38	9	1	20-99	250-499
3431	Plumbing fixtures and fittings.....	5	3	2	...	...	31	24	21	2	1	20-99	100-249
3439	Heating and cooking equipment, n.e.c.....	23	3	18	2	20-99	250-499	24	17	7	...	...	127
344	Structural metal products.....	68	36	22	10	416	770	157	122	30	5	426	1,091
3441	Structural and ornamental products.	18	9	5	4	201	284	46	38	8	...	...	191
3442	Metal doors, sash, and trim.....	10	9	1	...	...	34	23	20	3	...	...	86
3443	Boiler shop products.....	18	6	9	3	73	196	67	48	14	5	426	714
3444	Sheet-metal work.....	22	12	7	3	142	256	21	16	5	...	...	100
346	Metal stamping and coating.....	42	17	17	8	250-499	500-999	149	122	23	4	146	727
3461	Vitreous-enameled products.....	3	...	2	1	20-99	20-99	8	5	3	...	...	48
3463	Metal stampings.....	39	17	15	7	376	598	141	117	20	4	146	679
3471	Lighting fixtures.....	19	13	5	1	20-99	100-249	31	23	7	1	20-99	100-249
348	Fabricated wire products.....	46	24	19	3	82	370	128	96	26	6	303	855
3481	Nails and spikes.....	5	3	2	...	...	31	8	8	...	...	...	20
3489	Wirework, n.e.c.....	41	21	17	3	82	339	120	88	26	6	303	835
349	Metal products, n.e.c.....	34	11	22	1	20-99	250-499	237	135	77	25	1,000-2,499	1,000-2,499
3491	Metal barrels, drums, and pails....	9	...	9	...	...	108	3	3	...	...	...	7
3492	Safes and vaults.....	...	...	...	...	...	...	4	4	...	...	...	10
3493	Steel springs.....	1	...	1	...	...	12	43	12	23	8	611	917
3494	Bolts, nuts, washers, and rivets...	22	11	10	1	20-99	100-249	130	80	35	15	434	1,054
3495	Screw machine products.....	2	...	2	...	...	24	34	23	10	1	20-99	100-249
3496	Collapsible tubes.....	...	...	...	...	...	...	13	7	5	1	20-99	20-99
3497	Metal foil.....	...	...	...	...	...	...	10	6	4	...	...	63
35	Machinery (except electrical)	201	129	59	13	379	1,409	1,680	1,234	334	112	5,558	12,651
351	Engines and turbines.....	6	3	3	...	...	43	46	22	18	6	250-499	500-999
3511	Steam engines and turbines.....	2	1	1	...	...	14	10	5	4	1	20-99	100-249
3519	Internal combustion engines.....	4	2	2	...	...	29	36	17	14	5	261	472
352	Tractors and farm machinery.....	11	7	4	...	...	65	137	85	36	16	1,239	1,883
3521	Tractors.....	1	1	...	...	...	2	37	13	11	13	1,103	1,267
3522	Farm machinery (except tractors)...	10	6	4	...	...	63	100	72	25	3	136	616
353	Construction and mining machinery	8	6	...	2	20-99	20-99	156	100	45	11	505	1,295
3531	Construction and mining machinery..	4	4	...	...	...	10	99	67	26	6	193	672
3532	Oil-field machinery and tools.....	4	2	...	2	20-99	20-99	57	33	19	5	312	623
354	Metalworking machinery.....	17	11	6	...	...	99	481	378	85	18	746	2,711
3541	Machine tools.....	5	3	2	...	...	31	93	61	23	9	343	771
3542	Metalworking machinery.....	4	3	1	...	...	19	83	63	17	3	126	487
3544	Special dies and tools.....	5	2	3	...	...	41	174	161	13	...	...	559
3545	Metalworking machinery attachments.	3	3	...	...	...	8	131	93	32	6	277	894
355	Special-industry machinery, nec.	38	25	11	2	20-99	100-249	251	215	31	...	100-249	1,000-2,499
3551	Food-products machinery.....	17	12	5	...	...	90	43	36	6	1	20-99	100-249
3552	Textile machinery.....	7	4	2	1	20-99	20-99	72	59	10	3	111	378
3553	Woodworking machinery.....	2	1	...	1	20-99	20-99	27	26	1	...	...	77
3554	Paper-industries machinery.....	1	1	...	...	...	2	24	21	3	...	...	89
3555	Printing-press machinery.....	1	...	1	...	...	12	27	22	5	...	...	115
3559	Special-industry machinery, n.e.c.	10	7	3	...	...	54	58	51	6	1	20-99	100-249

See footnotes at end of table.

SELECTED METALWORKING OPERATIONS

212-7

Table 1.—SELECTED METALWORKING OPERATIONS, BY INDUSTRY: 1954—Continued

Code No.	Industry and industry group	Galvanizing and other hot-dip coating ⁴ (excludes establishments classified in the Galvanizing industry)						Heat treating or annealing of metals for production purposes					
		Establishments by number of production workers in the operation				Production workers		Establishments by number of production workers in the operation				Production workers	
		Total	1-4	5-19	20 or more	Actual number em- ployed in operations having 20 or more workers	Estimated number employed in all operations	Total	1-4	5-19	20 or more	Actual number em- ployed in operations having 20 or more workers	Estimated number employed in all operations
	Machinery (except elec- trical)—Continued												
356	General industrial machinery....	32	23	7	2	20-99	100-249	198	143	44	11	250-499	1,000-2,499
3561	Pumps and compressors.....	12	6	4	2	20-99	100-249	45	32	13	...	...	236
3562	Elevators and escalators.....	...	...	...	...	...	...	4	4	...	...	...	10
3563	Conveyors.....	2	2	...	...	...	5	24	20	3	1	20-99	100-249
3564	Blowers and fans.....	1	1	...	...	...	2	4	3	1	...	...	19
3565	Industrial trucks and tractors....	2	2	...	...	...	5	19	18	...	1	20-99	20-99
3566	Power-transmission equipment.....	11	8	3	...	...	56	70	38	23	9	381	752
3567	Industrial furnaces and ovens.....	1	1	...	...	...	2	4	3	1	...	...	19
3569	General industrial machinery, n.e.c.	3	3	...	...	...	8	28	25	3	...	...	99
357	Office and store machines.....	11	6	3	2	20-99	100-249	56	34	12	10	250-499	500-999
3571	Computing and related machines....	7	2	3	2	20-99	100-249	21	9	6	6	328	422
3572	Typewriters.....	...	...	...	...	...	...	7	2	2	3	133	162
3576	Scales and balances.....	2	2	...	...	...	5	13	10	3	...	...	61
3579	Office and store machines, n.e.c....	2	2	...	...	...	5	15	13	1	1	20-99	20-99
358	Service and household machines..	36	21	13	2	20-99	250-499	86	60	23	3	96	522
3581	Domestic laundry equipment.....	3	2	1	...	...	17	16	14	2	...	...	59
3582	Laundry and dry-cleaning machinery.	1	1	...	...	...	2	6	5	1	...	...	24
3583	Sewing machines.....	1	1	...	...	...	2	13	10	2	1	20-99	20-99
3584	Vacuum cleaners.....	1	...	1	...	...	12	5	5	...	...	...	12
3585	Refrigeration machinery.....	25	14	9	2	20-99	100-249	32	13	17	2	20-99	250-499
3586	Measuring and dispensing pumps....	3	2	1	...	...	17	7	6	1	...	...	27
3589	Service and household machines, n.e.c.....	2	1	1	...	...	15	7	7	...	...	...	18
359	Miscellaneous machinery parts...	42	27	12	3	109	321	269	197	40	32	1,569	2,541
3591	Valves and fittings, except plumbing.....	21	10	8	3	109	230	56	41	10	5	268	490
3593	Ball and roller bearings.....	...	...	...	...	...	...	63	22	17	24	1,215	1,474
3594	Industrial patterns and molds.....	...	...	...	...	...	...	13	13	...	...	...	32
3599	Machine shops.....	21	17	4	...	...	91	137	121	13	3	86	545
36	Electrical machinery.....	136	78	41	17	766	1,453	389	276	93	20	500-999	2,500-9,999
361	Electrical industrial apparatus.	74	39	21	14	572	922	169	123	36	10	454	1,194
3611	Wiring devices and supplies.....	35	13	14	8	326	527	28	22	4	2	20-99	100-249
3612	Carbon and graphite products.....	4	2	2	...	...	29	5	5	...	...	...	12
3614	Motors and generators.....	12	10	...	2	20-99	100-249	59	38	15	6	273	548
3615	Transformers.....	4	2	1	1	20-99	20-99	20	8	10	2	20-99	100-249
3616	Electrical control apparatus.....	11	7	3	1	20-99	20-99	42	37	5	...	...	153
3617	Electrical welding apparatus.....	2	1	...	1	20-99	20-99	7	6	1	...	...	27
3619	Electrical industrial apparatus, n.e.c.....	6	4	1	1	20-99	20-99	8	7	1	...	...	30
3621	Electrical appliances.....	8	4	4	...	...	58	23	18	4	1	20-99	100-249
3631	Insulated wire and cable.....	2	2	...	...	...	5	1	1	...	...	...	2
3641	Engine electrical equipment.....	2	1	...	1	100-249	100-249	20	15	3	2	20-99	100-249
3651	Electric lamps (bulbs).....	...	...	...	...	...	...	7	5	2	...	...	37
366	Communication equipment.....	49	32	15	2	20-99	250-499	139	106	28	5	184	785
3661	Radios and related products.....	40	25	13	2	20-99	250-499	83	68	13	2	20-99	250-499
3662	Electronic tubes.....	2	2	...	...	...	5	31	24	6	1	20-99	100-249
3664	Telephone and telegraph equipment.	6	5	1	...	...	24	19	9	8	2	20-99	100-249
3669	Communication equipment, n.e.c.....	1	...	1	...	...	12	6	5	1	...	...	24
369	Miscellaneous electrical products	1	...	1	...	...	12	30	8	20	2	20-99	100-249
3691	Storage batteries.....	...	...	...	...	...	...	21	3	16	2	20-99	100-249
3692	Primary batteries.....	1	...	1	...	...	12	1	...	1	...	...	12
3693	X-ray and therapeutic apparatus....	...	...	...	...	...	...	2	1	1	...	...	14
3699	Electrical products, n.e.c.....	...	...	...	...	...	...	6	4	2	...	...	34
37	Transportation equipment.....	117	67	44	6	232	927	517	249	158	110	5,887	8,405
371	Motor vehicles and equipment.....	45	25	18	2	20-99	250-499	221	91	62	68	4,194	5,165
3713	Truck and bus bodies.....	1	...	1	...	...	12	3	3	...	...	...	7
3715	Truck trailers.....	1	1	...	...	...	2	9	9	...	...	...	22
3716	Automobile trailers.....	1	1	...	...	...	2	1	...	1	...	...	12
3717	Motor vehicles and parts.....	42	23	17	2	20-99	250-499	208	79	61	68	4,194	5,124
372	Aircraft and parts.....	50	30	17	3	133	412	229	109	81	39	1,000-2,499	2,500-4,999
3721	Aircraft.....	15	9	5	1	20-99	100-249	47	15	18	14	522	775
3722	Aircraft engines.....	10	5	4	1	20-99	100-249	70	34	21	15	742	1,079
3723	Aircraft propellers.....	2	1	1	...	...	14	5	1	2	2	20-99	20-99
3729	Aircraft equipment, n.e.c.....	23	15	7	1	20-99	100-249	107	59	40	8	300	928
373	Ships and boats.....	11	7	4	...	...	66	26	20	6	...	...	122
3731	Ship building and repairing.....	8	4	4	...	...	58	20	14	6	...	...	107
3732	Boat building and repairing.....	3	3	...	...	...	8	6	6	...	...	...	15
374	Railroad equipment.....	8	4	3	1	20-99	20-99	23	16	4	3	20-99	100-249
3741	Locomotives and parts.....	3	1	2	...	...	26	9	5	2	2	20-99	20-99
3742	Railroad and street cars.....	5	3	1	1	20-99	20-99	14	11	2	1	20-99	20-99
3751	Motorcycles and bicycles.....	2	1	1	...	...	14	14	10	4	...	...	73
3799	Transportation equipment, n.e.c.	1	...	1	...	...	12	4	3	1	...	...	20

See footnotes at end of table.

Table 1.—SELECTED METALWORKING OPERATIONS, BY INDUSTRY: 1954—Continued

Code No.	Industry and industry group	Tool and die shop (where separate from machine shop)						Pattern shop (foundry patterns only)					
		Establishments by number of production workers in the operation				Production workers		Establishments by number of production workers in the operation				Production workers	
		Total	1-4	5-19	20 or more	Actual number employed in operations having 20 or more workers	Estimated number employed in all operations	Total	1-4	5-19	20 or more	Actual number employed in operations having 20 or more workers	Estimated number employed in all operations
	Major Groups 19 and 33-37, totals.....	8,178	3,251	3,283	1,644	133,864	181,386	2,635	1,633	774	228	10,610	23,979
19	Ordnance and accessories.....	178	49	72	57	2,986	3,973	29	25	3	1	20-99	100-249
33	Primary metal industries.....	269	57	110	102	5,000-9,999	5,000-9,999	796	491	251	54	2,754	6,993
3312	Steel works and rolling mills.....	41	4	15	22	1,645	1,835	43	17	20	6	190	472
332	Iron and steel foundries.....	xxx	xxx	xxx	xxx	xxx	xxx	551	336	175	40	2,146	5,086
3321	Gray-iron foundries.....	xxx	xxx	xxx	xxx	xxx	xxx	373	264	89	20	1,352	3,080
3322	Malleable-iron foundries.....	xxx	xxx	xxx	xxx	xxx	xxx	53	18	32	3	170	599
3323	Steel foundries.....	xxx	xxx	xxx	xxx	xxx	xxx	125	54	54	17	624	1,407
335	Nonferrous rolling and drawing..	65	14	28	23	1,321	1,692	2	1	1	...	...	14
3351	Copper rolling and drawing.....	35	7	15	13	583	781	1	1	...	...	...	2
3352	Aluminum rolling and drawing.....	22	5	7	10	738	834	1	...	1	...	...	12
3359	Rolling and drawing, n.e.c.....	8	2	6	...	...	77	...	...	...	...	...	...
3361	Nonferrous foundries.....	xxx	xxx	xxx	xxx	xxx	xxx	198	135	55	8	418	1,415
339	Primary metal industries, n.e.c.	163	39	67	57	2,500-4,999	2,500-4,999	2	2	...	...	...	5
3391	Iron and steel forgings.....	102	12	40	50	3,301	3,811	xxx	xxx	xxx	xxx	xxx	xxx
3392	Wire drawing.....	45	23	17	5	280	541	1	1	...	...	...	3
3393	Welded and heavy-riveted pipe.....	16	4	10	2	100-249	100-249	1	1	...	...	...	2
34	Fabricated metal products.....	2,027	1,143	689	195	10,000 or more	10,000 or more	301	233	55	13	540	1,782
3411	Tin cans and other tinware.....	12	7	4	1	20-99	100-249	...	...	...	...	...	...
342	Cutlery, tools and hardware.....	400	195	148	57	2,500-4,999	5,000-9,999	69	58	10	1	20-99	250-499
3421	Cutlery.....	37	18	17	2	20-99	250-499	3	2	1	...	...	17
3422	Edge tools.....	55	21	25	9	345	698	3	2	1	...	...	17
3423	Hand tools, n.e.c.....	84	46	29	9	259	722	9	6	3	...	...	51
3424	Files.....	3	1	2	...	...	26	3	3	...	...	...	7
3425	Hand saws and saw blades.....	10	6	4	...	...	63	3	1	2	...	...	27
3429	Hardware, n.e.c.....	211	103	71	37	2,920	4,029	48	44	3	1	20-99	100-249
343	Heating and plumbing equipment..	164	92	57	15	507	1,421	95	66	23	6	100-249	500-999
3431	Plumbing fixtures and fittings.....	57	35	17	5	184	475	42	27	11	4	84	283
3439	Heating and cooking equipment, n.e.c.....	107	57	40	10	323	945	53	39	12	2	100-249	250-499
344	Structural metal products.....	223	162	52	9	250-499	1,000-2,499	76	58	14	4	135	448
3441	Structural and ornamental products.	50	39	8	3	105	298	42	33	7	2	20-99	100-249
3442	Metal doors, sash, and trim.....	71	48	19	4	230	578	8	6	1	1	20-99	20-99
3443	Boiler shop products.....	32	25	5	2	20-99	100-249	14	10	3	1	20-99	20-99
3444	Sheet-metal work.....	70	50	20	...	...	365	12	9	3	...	...	59
346	Metal stamping and coating.....	672	341	271	60	2,556	6,660	25	20	4	1	100-249	-250-499
3461	Vitreous-enameled products.....	6	3	3	...	...	43	1	1	...	...	...	2
3463	Metal stampings.....	666	338	268	60	2,556	6,617	24	19	4	1	100-249	250-499
3471	Lighting fixtures.....	121	86	29	6	546	1,109	20	17	2	1	20-99	20-99
348	Fabricated wire products.....	148	102	41	5	233	980	5	5	...	...	...	12
3481	Nails and spikes.....	8	7	1	...	...	29	1	1	...	...	...	2
3489	Wirework, n.e.c.....	140	95	40	5	233	951	4	4	...	...	...	10
349	Metal products, n.e.c.....	287	158	87	42	2,159	3,598	11	9	2	...	...	46
3491	Metal barrels, drums, and pails...	5	5	...	...	...	13	1	1	...	...	...	2
3492	Safes and vaults.....	5	...	5	...	...	60	1	1	...	...	...	3
3493	Steel springs.....	10	3	6	1	20-99	100-249	1	...	1	...	...	12
3494	Bolts, nuts, washers, and rivets...	129	50	41	38	2,018	2,635	7	6	1	...	...	27
3495	Screw machine products.....	129	96	31	2	20-99	500-999	1	1	...	...	...	2
3496	Collapsible tubes.....	8	4	3	1	20-99	20-99	...	...	...	...	...	...
3497	Metal foil.....	1	...	1	...	...	12	...	...	...	...	...	...
35	Machinery (except electrical)	4,011	1,368	1,821	822	50,064	75,336	1,184	692	377	115	4,791	11,045
351	Engines and turbines.....	62	12	20	30	1,782	2,052	29	17	8	4	159	297
3511	Steam engines and turbines.....	12	4	3	5	473	519	10	4	4	2	100-249	100-249
3519	Internal combustion engines.....	50	8	17	25	1,309	1,533	19	13	4	2	20-99	100-249
352	Tractors and farm machinery.....	229	128	54	47	3,763	4,731	85	53	21	11	434	818
3521	Tractors.....	44	10	15	19	2,221	2,426	18	5	6	7	267	351
3522	Farm machinery (except tractors)...	185	118	39	28	1,542	2,305	67	48	15	4	167	467
353	Construction and mining machinery	134	53	50	31	1,448	2,180	69	39	23	7	324	697
3531	Construction and mining machinery..	89	38	29	22	776	1,219	58	33	18	7	324	622
3532	Oil-field machinery and tools.....	45	15	21	9	672	961	11	6	5	...	...	75
354	Metalworking machinery.....	1,979	407	1,081	491	28,556	42,545	165	83	59	23	1,000-2,499	1,000-2,499
3541	Machine tools.....	102	30	48	24	1,443	2,094	63	29	25	9	237	610
3542	Metalworking machinery.....	103	38	46	19	928	1,575	49	30	13	6	232	463
3544	Special dies and tools.....	1,562	282	877	403	23,602	34,831	40	18	16	6	429	666
3545	Metalworking machinery attachments.	212	57	110	45	2,583	4,045	13	6	5	2	100-249	250-499
355	Special-industry machinery, n.e.c.....	310	153	133	24	1,215	3,193	222	172	45	5	209	1,179
3551	Food-products machinery.....	72	43	27	2	20-99	250-499	36	29	7	...	...	157
3552	Textile machinery.....	70	35	26	9	432	831	45	37	5	3	124	277
3553	Woodworking machinery.....	33	19	12	2	100-249	250-499	31	28	3	...	...	106
3554	Paper-industries machinery.....	20	8	11	1	100-249	250-499	32	21	10	1	20-99	100-249
3555	Printing-trades machinery.....	34	12	18	4	264	510	19	11	8	...	...	123
3559	Special-industry machinery, n.e.c...	81	36	39	6	232	790	59	46	12	1	20-99	250-499

See footnotes at end of table.

SELECTED METALWORKING OPERATIONS

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Table 1.—SELECTED METALWORKING OPERATIONS, BY INDUSTRY: 1954—Continued

Code No.	Industry and industry group	Tool and die shop (where separate from machine shop)						Pattern shop (foundry patterns only)					
		Establishments by number of production workers in the operation				Production workers		Establishments by number of production workers in the operation				Production workers	
		Total	1-4	5-19	20 or more	Actual number em- ployed in operations having 20 or more workers	Estimated number employed in all operations	Total	1-4	5-19	20 or more	Actual number em- ployed in operations having 20 or more workers	Estimated number employed in all operations
	Machinery (except elec- trical)—Continued												
356	General industrial machinery....	365	186	132	47	1,904	3,953	186	133	45	8	314	1,187
3561	Pumps and compressors.....	108	45	48	15	634	1,323	71	45	21	5	253	618
3562	Elevators and escalators.....	16	9	4	3	107	178	4	3	1	...	...	19
3563	Conveyors.....	43	27	13	3	108	331	29	21	7	1	20-99	100-249
3564	Blowers and fans.....	31	20	10	1	20-99	100-249	7	6	1	...	...	27
3565	Industrial trucks and tractors....	34	21	10	3	93	265	10	8	1	1	20-99	20-99
3566	Power-transmission equipment.....	81	31	29	21	915	1,341	34	23	10	1	20-99	100-249
3567	Industrial furnaces and ovens.....	5	2	3	...	...	41	3	2	1	...	...	17
3568	Mechanical stokers.....	1	1	...	...	...	2	4	3	1	...	...	19
3569	General industrial machinery, n.e.c.	46	30	15	1	20-99	250-499	24	22	2	...	...	79
357	Office and store machines.....	88	35	26	27	2,500-4,999	2,500-4,999	10	6	4	...	...	63
3571	Computing and related machines.....	29	7	7	15	2,360	2,461	5	3	2	...	...	31
3572	Typewriters.....	8	2	2	4	588	617	1	1	...	...	...	2
3576	Scales and balances.....	16	10	4	2	20-99	100-249	3	1	2	...	...	27
3579	Office and store machines, n.e.c....	35	16	13	6	296	492	1	1	...	...	...	3
358	Service and household machines....	216	98	75	43	2,500-4,999	2,500-4,999	40	26	13	1	20-99	100-249
3581	Domestic laundry equipment.....	30	10	12	8	412	581	4	3	1	...	...	20
3582	Laundry and dry-cleaning machinery.	15	8	6	1	20-99	100-249	8	5	3	...	...	49
3583	Sewing machines.....	13	4	5	4	501	571	2	1	1	...	...	14
3584	Vacuum cleaners.....	11	5	2	4	242	279	1	1	...	...	...	2
3585	Refrigeration machinery.....	102	45	34	23	2,210	2,730	14	8	5	1	20-99	100-249
3586	Measuring and dispensing pumps.....	12	5	4	3	110	171	3	2	1	...	...	17
3589	Service and household machines, n.e.c.....	33	21	12	...	...	196	8	6	2	...	...	39
359	Miscellaneous machinery parts...	628	296	250	82	4,599	8,339	378	163	159	56	2,248	4,564
3591	Valves and fittings, except plumbing	143	64	56	23	1,094	1,926	91	49	31	11	395	890
3593	Ball and roller bearings.....	33	5	11	17	1,477	1,621	3	3	...	...	...	7
3594	Industrial patterns and molds.....	105	16	63	26	988	1,784	216	52	119	45	1,853	3,411
3599	Machine shops.....	347	211	120	16	1,040	3,008	68	59	9	...	...	256
36	Electrical machinery.....	879	401	320	158	10,986	15,828	98	65	29	4	100-249	500-999
361	Electrical industrial apparatus....	394	161	161	72	4,729	7,063	71	47	20	4	100-249	250-499
3611	Wiring devices and supplies.....	93	43	38	12	581	1,144	18	12	4	2	20-99	100-249
3612	Carbon and graphite products.....	2	...	2	...	...	24	...	...	...	...	...	...
3614	Motors and generators.....	118	36	50	32	2,288	2,978	25	16	7	2	20-99	100-249
3615	Transformers.....	16	4	7	5	463	557	1	1	...	...	...	2
3616	Electrical control apparatus.....	125	59	50	16	1,107	1,855	20	12	8	...	...	126
3617	Electrical welding apparatus.....	22	9	9	4	169	299	6	5	1	...	...	25
3619	Electrical industrial apparatus, n.e.c.....	18	10	5	3	121	206	1	1	...	...	...	2
3621	Electrical appliances.....	63	32	16	15	1,006	1,278	5	4	1	...	...	22
3631	Insulated wire and cable.....	8	6	2	...	...	39	...	...	...	...	...	...
3641	Engine electrical equipment.....	43	14	19	10	1,449	1,713	4	1	3	...	...	39
3651	Electric lamps (bulbs).....	5	3	1	1	20-99	20-99	1	1	...	...	...	2
366	Communication equipment.....	329	163	111	55	2,500-4,999	5,000-9,999	13	10	3	...	...	61
3661	Radios and related products.....	267	139	91	37	1,825	3,264	9	7	2	...	...	42
3662	Electronic tubes.....	16	6	4	6	313	376	...	...	...	...	...	...
3663	Phonograph records.....	2	1	1	...	...	14	...	...	...	...	...	...
3664	Telephone and telegraph equipment..	31	11	10	10	1,302	1,450	2	2	...	...	...	5
3669	Communication equipment, n.e.c.....	13	6	5	2	20-99	100-249	2	1	1	...	...	14
369	Miscellaneous electrical products	37	22	10	5	250-499	250-499	4	2	2	...	...	29
3691	Storage batteries.....	9	6	1	2	20-99	100-249	...	...	...	...	...	...
3692	Primary batteries.....	5	2	3	...	...	41	...	...	...	...	...	...
3693	X-ray and therapeutic apparatus....	17	10	4	3	175	248	4	2	2	...	...	29
3699	Electrical products, n.e.c.....	6	4	2	...	...	34	...	...	...	...	...	...
37	Transportation equipment.....	814	233	271	310	53,163	56,997	227	127	59	41	2,362	3,387
371	Motor vehicles and equipment....	372	114	107	151	23,348	24,917	59	31	14	14	500-999	500-999
3713	Truck and bus bodies.....	23	16	7	...	...	124	9	9	...	...	...	23
3715	Truck trailers.....	15	6	9	...	...	123	2	2	...	...	...	5
3716	Automobile trailers.....	8	2	6	...	...	77	9	5	2	2	20-99	20-99
3717	Motor vehicles and parts.....	326	90	85	151	23,348	24,593	39	15	12	12	569	750
372	Aircraft and parts.....	371	90	143	138	28,518	30,459	97	44	31	22	1,555	2,037
3721	Aircraft.....	54	6	7	41	18,709	18,808	38	10	14	14	1,228	1,421
3722	Aircraft engines.....	87	15	37	35	5,028	5,509	16	5	7	4	180	276
3723	Aircraft propellers.....	6	...	2	4	365	389	...	...	...	...	...	...
3729	Aircraft equipment, n.e.c.....	224	69	97	58	4,416	5,753	43	29	10	4	147	340
373	Ships and boats.....	16	10	4	2	20-99	100-249	52	39	11	2	20-99	250-499
3731	Ship building and repairing.....	9	5	2	2	20-99	100-249	37	25	10	2	20-99	250-499
3732	Boat building and repairing.....	7	5	2	...	...	36	15	14	1	...	...	47
374	Railroad equipment.....	31	7	9	15	1,094	1,219	16	10	3	3	109	170
3741	Locomotives and parts.....	13	4	2	7	564	598	8	5	2	1	20-99	20-99
3742	Railroad and street cars.....	18	3	7	8	530	621	8	5	1	2	20-99	20-99
3751	Motorcycles and bicycles.....	15	5	7	3	98	194	2	2	...	...	...	5
3799	Transportation equipment, n.e.c....	9	7	1	1	20-99	20-99	1	1	...	...	...	3

See footnotes at end of table.

MANUFACTURES—SUMMARY STATISTICS

Table 1.—SELECTED METALWORKING OPERATIONS BY INDUSTRY: 1954—Continued

Code No.	Industry and industry group	Plate or structural fabrication						Stamping, blanking, forming, or drawing operations					
		Establishments by number of production workers in the operation				Production workers		Establishments by number of production workers in the operation				Production workers	
		Total	1-4	5-19	20 or more	Actual number employed in operations having 20 or more workers	Estimated number employed in all operations	Total	1-4	5-19	20 or more	Actual number employed in operations having 20 or more workers	Estimated number employed in all operations
	Major Groups 19 and 33-37, totals.....	5,692	1,533	2,427	1,732	179,422	212,378	9,958	3,451	4,041	2,466	245,693	302,811
19	Ordnance and accessories.....	49	7	16	26	3,740	3,950	156	40	63	53	5,615	6,471
33	Primary metal industries.....	32	4	7	21	3,096	3,190	214	28	83	103	11,976	13,042
3312	Steel works and rolling mills...	19	1	5	13	2,117	2,179	41	6	10	25	4,232	4,367
335	Nonferrous rolling and drawing..	5	3	...	2	100-249	100-249	78	14	30	34	4,154	4,549
3351	Copper rolling and drawing.....	1	1	...	...	...	3	39	8	11	20	2,332	2,484
3352	Aluminum rolling and drawing.....	4	2	...	2	100-249	100-249	21	1	11	9	1,433	1,567
3359	Rolling and drawing, n.e.c.....	...	...	...	...	...	...	18	5	8	5	389	498
339	Primary metal industries, n.e.c.	8	...	2	6	500-999	500-999	95	8	43	44	3,590	4,126
3392	Wire drawing.....	1	...	...	1	100-249	100-249	69	7	30	32	2,163	2,541
3393	Welded and heavy-riveted pipe.....	7	...	2	5	618	642	26	1	13	12	1,427	1,585
34	Fabricated metal products....	2,274	406	1,026	842	76,829	90,156	4,543	1,191	2,079	1,273	110,471	138,396
3411	Tin cans and other tinware.....	15	1	4	10	2,112	2,162	128	4	40	84	15,964	16,454
342	Cutlery, tools and hardware....	51	24	22	5	225	549	589	226	246	117	10,000 or more	10,000 or more
3421	Cutlery.....	...	...	...	...	...	...	70	35	29	6	212	647
3422	Edge tools.....	1	1	...	...	...	2	24	12	8	4	103	229
3423	Hand tools, n.e.c.....	7	3	4	...	...	56	113	56	43	14	582	1,238
3424	Files.....	...	...	...	...	...	...	5	1	4	...	...	50
3425	Hand saws and saw blades.....	4	...	4	...	...	48	34	17	16	1	20-99	250-499
3429	Hardware, n.e.c.....	39	20	14	5	225	443	343	105	146	92	15,176	17,191
343	Heating and plumbing equipment..	141	46	62	33	1,000-2,499	2,500-4,999	387	104	143	140	9,028	11,004
3431	Plumbing fixtures and fittings....	4	...	2	2	100-249	100-249	62	23	25	14	846	1,203
3439	Heating and cooking equipment, n.e.c.....	137	46	60	31	2,273	3,108	325	81	118	126	8,182	9,801
344	Structural metal products.....	1,932	278	879	775	71,010	82,253	1,184	371	603	210	13,639	21,802
3441	Structural and ornamental products.	1,057	144	486	427	40,778	46,970	236	86	101	49	3,511	4,938
3442	Metal doors, sash, and trim.....	81	18	37	26	2,164	2,653	244	76	112	56	3,731	5,265
3443	Boiler shop products.....	548	51	231	266	24,688	27,587	140	58	68	14	1,691	2,652
3444	Sheet-metal work.....	246	65	125	56	3,380	5,043	564	151	322	91	4,706	8,947
346	Metal stamping and coating.....	54	28	20	6	250-499	500-999	1,329	166	652	511	41,008	49,247
3461	Vitreous-enameled products.....	3	...	2	1	20-99	20-99	27	5	9	13	1,075	1,195
3463	Metal stampings.....	51	28	18	5	228	514	1,302	161	643	498	39,933	48,052
3471	Lighting fixtures.....	33	10	18	5	198	439	259	92	114	53	3,298	4,897
348	Fabricated wire products.....	27	11	14	2	100-249	250-499	349	129	157	63	4,570	6,776
3481	Nails and spikes.....	...	...	...	...	...	...	31	12	12	7	227	401
3489	Wirework, n.e.c.....	27	11	14	2	100-249	250-499	318	117	145	56	4,343	6,375
349	Metal products, n.e.c.....	21	8	7	6	490	594	318	99	124	95	5,000-9,999	5,000-9,999
3491	Metal barrels, drums, and pails...	1	...	1	...	...	12	76	14	26	36	2,516	2,863
3492	Safes and vaults.....	7	2	2	3	327	356	10	3	4	3	403	458
3493	Steel springs.....	3	2	...	1	20-99	20-99	33	9	13	11	862	1,041
3494	Bolts, nuts, washers, and rivets...	8	2	4	2	20-99	100-249	125	29	56	40	2,865	3,610
3495	Screw machine products.....	2	2	...	...	...	5	57	39	16	2	100-249	250-499
3496	Collapsible tubes.....	...	...	...	...	...	...	11	2	8	1	20-99	100-249
3497	Metal foil.....	...	...	...	...	...	...	6	3	1	2	20-99	20-99
35	Machinery (except electrical)	2,344	809	989	546	41,489	55,379	2,780	1,397	962	421	28,449	43,485
351	Engines and turbines.....	25	5	9	11	1,683	1,804	30	11	10	9	500-999	500-999
3511	Steam engines and turbines.....	11	1	5	5	1,033	1,096	7	5	1	1	20-99	20-99
3519	Internal combustion engines.....	14	4	4	6	650	708	23	6	9	8	467	590
352	Tractors and farm machinery....	197	61	104	32	3,733	5,134	370	153	141	76	4,519	6,594
3521	Tractors.....	25	4	12	9	2,726	2,880	46	13	16	17	1,303	1,528
3522	Farm machinery (except tractors)...	172	57	92	23	1,007	2,254	324	140	125	59	3,216	5,066
353	Construction and mining machinery	323	58	124	141	12,218	13,851	115	62	44	9	250-499	1,000-2,499
3531	Construction and mining machinery..	258	36	103	119	10,593	11,919	91	48	36	7	300	852
3532	Oil-field machinery and tools.....	65	22	21	22	1,625	1,932	24	14	8	2	20-99	100-249
354	Metalworking machinery.....	231	116	86	29	2,135	3,457	542	363	161	18	500-999	2,500-4,999
3541	Machine tools.....	42	18	17	7	277	526	33	22	11	...	...	187
3542	Metalworking machinery.....	81	32	32	17	1,632	2,096	51	31	18	2	100-249	250-499
3544	Special dies and tools.....	91	55	31	5	226	736	410	278	121	11	565	2,712
3545	Metalworking machinery attachments.	17	11	6	...	...	99	48	32	11	5	132	344
355	Special-industry machinery, n.e.c.....	474	169	204	101	5,551	8,421	325	183	102	40	1,000-2,499	2,500-4,999
3551	Food-products machinery.....	153	49	65	39	1,696	2,599	111	69	35	7	295	888
3552	Textile machinery.....	44	23	14	7	276	501	73	33	26	14	781	1,176
3553	Woodworking machinery.....	43	25	18	...	...	278	28	21	6	1	20-99	100-249
3554	Paper-industries machinery.....	34	17	11	6	388	563	7	5	2	...	...	36
3555	Printing-trades machinery.....	15	5	7	3	88	184	26	15	8	3	109	242
3559	Special-industry machinery, n.e.c..	185	50	89	46	3,103	4,296	80	40	25	15	630	1,030

See footnotes at end of table.

Table 1.—SELECTED METALWORKING OPERATIONS BY INDUSTRY: 1954—Continued

Code No.	Industry and industry group	Plate or structural fabrication						Stamping, blanking, forming, or drawing operations					
		Establishments by number of production workers in the operation				Production workers		Establishments by number of production workers in the operation				Production workers	
		Total	1-4	5-19	20 or more	Actual number employed in operations having 20 or more workers	Estimated number employed in all operations	Total	1-4	5-19	20 or more	Actual number employed in operations having 20 or more workers	Estimated number employed in all operations
	Machinery (except electrical)—Continued												
356	General industrial machinery....	622	166	278	178	12,557	16,308	458	195	189	74	2,500-4,999	5,000-9,999
3561	Pumps and compressors.....	58	25	21	12	581	896	48	26	19	3	115	408
3562	Elevators and escalators.....	51	17	27	7	610	976	16	5	7	4	315	412
3563	Conveyors.....	188	38	80	70	5,380	6,435	99	46	37	16	691	1,250
3564	Blowers and fans.....	65	19	28	18	1,512	1,896	96	29	50	17	1,003	1,676
3565	Industrial trucks and tractors....	86	14	53	19	1,258	1,929	53	25	27	1	20-99	250-499
3566	Power-transmission equipment.....	20	8	6	6	399	491	60	16	21	23	1,180	1,472
3567	Industrial furnaces and ovens.....	63	20	26	17	725	1,087	25	12	10	3	270	420
3568	Mechanical stokers.....	4	4	...	...	...	10	1	1	...	...	...	2
3569	General industrial machinery, n.e.c.....	87	21	37	29	2,092	2,588	60	35	18	7	239	542
357	Office and store machines.....	22	9	10	3	80	222	110	38	38	34	2,871	3,422
3571	Computing and related machines....	5	2	3	...	...	41	30	5	7	18	1,573	1,669
3572	Typewriters.....	...	...	...	...	...	...	9	2	1	6	893	910
3576	Scales and balances.....	12	5	5	2	20-99	100-249	24	12	8	4	118	244
3579	Office and store machines, n.e.c....	5	2	2	1	20-99	20-99	47	19	22	6	287	599
358	Service and household machines..	134	56	51	27	1,000-2,499	2,500-4,999	357	105	134	118	11,312	13,182
3581	Domestic laundry equipment.....	1	...	...	1	20-99	20-99	29	5	7	17	1,809	1,905
3582	Laundry and dry-cleaning machinery.	27	12	11	4	363	525	25	13	10	2	20-99	100-249
3583	Sewing machines.....	3	3	...	...	...	7	13	9	2	2	100-249	100-249
3584	Vacuum cleaners.....	2	2	...	...	...	5	19	6	7	6	304	403
3585	Refrigeration machinery.....	70	27	26	17	1,847	2,227	212	46	85	81	8,411	9,547
3586	Measuring and dispensing pumps....	4	3	...	1	20-99	20-99	17	4	8	5	254	360
3589	Service and household machines, n.e.c.....	27	9	14	4	121	312	42	22	15	5	267	502
359	Miscellaneous machinery parts...	316	169	123	24	1,000-2,499	2,500-4,999	473	287	143	43	1,000-2,499	2,500-4,999
3591	Valves and fittings, except plumbing.....	28	12	9	7	555	693	64	40	17	7	395	699
3593	Ball and roller bearings.....	2	1	1	...	...	14	46	13	13	20	1,183	1,371
3594	Industrial patterns and molds.....	7	3	2	2	20-99	100-249	19	12	6	1	20-99	100-249
3599	Machine shops.....	279	153	111	15	480	2,195	344	222	107	15	756	2,595
36	Electrical machinery.....	304	115	127	62	5,000-9,999	5,000-9,999	1,318	523	508	287	20,533	27,936
361	Electrical industrial apparatus.	193	71	75	47	4,755	5,832	597	223	236	138	10,378	13,767
3611	Wiring devices and supplies.....	14	4	8	2	20-99	100-249	145	46	58	41	3,023	3,834
3612	Carbon and graphite products.....	...	...	...	...	...	...	14	11	2	1	20-99	20-99
3614	Motors and generators.....	40	13	15	12	1,327	1,540	146	44	58	44	3,550	4,356
3615	Transformers.....	23	8	4	11	1,579	1,647	43	15	18	10	600	853
3616	Electrical control apparatus.....	73	23	31	19	1,668	2,098	182	68	77	37	2,964	4,058
3617	Electrical welding apparatus.....	25	13	10	2	20-99	100-249	21	9	10	2	20-99	100-249
3619	Electrical industrial apparatus, n.e.c.....	18	10	7	1	20-99	100-249	46	30	13	3	123	354
3621	Electrical appliances.....	15	5	10	...	...	132	129	38	50	41	3,169	3,864
3631	Insulated wire and cable.....	5	3	2	...	...	32	19	10	8	1	20-99	100-249
3641	Engine electrical equipment.....	4	2	1	1	20-99	20-99	56	19	22	15	1,667	1,958
3651	Electric lamps (bulbs).....	2	1	1	...	...	14	4	1	2	1	100-249	100-249
366	Communication equipment.....	69	27	30	12	814	1,241	440	188	167	85	2,500-4,999	5,000-9,999
3661	Radios and related products.....	52	21	23	8	543	872	350	153	132	65	3,165	5,131
3662	Electronic tubes.....	3	1	1	1	20-99	20-99	27	13	8	6	292	421
3663	Phonograph records.....	...	...	...	...	...	...	4	1	3	...	...	38
3664	Telephone and telegraph equipment..	7	1	4	2	100-249	100-249	36	11	13	12	1,279	1,463
3669	Communication equipment, n.e.c.....	7	4	2	1	20-99	20-99	23	10	11	2	20-99	100-249
369	Miscellaneous electrical products.....	16	6	8	2	20-99	100-249	73	44	23	6	374	760
3691	Storage batteries.....	7	4	3	...	...	46	7	3	4	...	...	55
3692	Primary batteries.....	...	...	...	...	...	...	12	7	3	2	100-249	100-249
3693	X-ray and therapeutic apparatus....	8	1	5	2	20-99	100-249	26	16	9	1	20-99	100-249
3699	Electrical products, n.e.c.....	1	1	...	...	...	...	2	18	7	3	165	294
37	Transportation equipment.....	689	192	262	235	10,000 or more	10,000 or more	947	272	346	329	68,649	73,481
371	Motor vehicles and equipment....	298	93	141	64	4,029	5,953	535	141	195	199	10,000 or more	10,000 or more
3713	Truck and bus bodies.....	115	41	58	16	810	1,608	101	37	48	16	754	1,422
3715	Truck trailers.....	58	9	26	23	1,436	1,770	36	11	17	8	333	565
3716	Automobile trailers.....	46	12	25	9	688	1,018	26	10	15	1	20-99	250-499
3717	Motor vehicles and parts.....	79	31	32	16	1,095	1,557	372	83	115	174	50,263	51,850
372	Aircraft and parts.....	135	42	31	62	18,018	18,495	300	99	99	102	15,261	16,697
3721	Aircraft.....	34	7	2	25	11,837	11,879	52	4	8	40	9,440	9,546
3722	Aircraft engines.....	22	10	5	7	601	686	57	20	22	15	2,640	2,954
3723	Aircraft propellers.....	1	1	...	...	...	2	5	4	1	...	...	22
3729	Aircraft equipment, n.e.c.....	78	24	24	30	5,880	5,928	186	71	68	47	3,181	4,175
373	Ships and boats.....	202	40	82	80	20,633	21,717	38	14	20	4	100-249	500-999
3731	Ship building and repairing.....	146	18	55	73	20,168	20,873	17	8	8	1	20-99	100-249
3732	Boat building and repairing.....	56	22	27	7	465	844	21	6	12	3	190	349
374	Railroad equipment.....	39	6	5	28	5,882	5,957	26	4	9	13	1,079	1,197
3741	Locomotives and parts.....	13	3	1	9	3,064	3,084	9	1	4	4	233	284
3742	Railroad and street cars.....	26	3	4	19	2,818	2,873	17	3	5	9	846	913
3751	Motorcycles and bicycles.....	3	1	1	1	20-99	20-99	27	4	14	9	596	774
3799	Transportation equipment, n.e.c....	12	10	2	...	...	49	21	10	9	2	20-99	100-249

See footnotes at end of table.

MANUFACTURES—SUMMARY STATISTICS

Table 1.—SELECTED METALWORKING OPERATIONS, BY INDUSTRY: 1954—Continued

Code No.	Industry and industry group	Automatic screw machine department						Machine shop					
		Establishments by number of production workers in the operation				Production workers		Establishments by number of production workers in the operation				Production workers	
		Total	1-4	5-19	20 or more	Actual number employed in operations having 20 or more workers	Estimated number employed in all operations	Total	1-4	5-19	20 or more	Actual number employed in operations having 20 or more workers	Estimated number employed in all operations
	Major Groups 19 and 33-37, totals.....	3,277	1,464	1,277	536	32,385	51,369	17,270	4,868	7,377	5,025	598,676	699,370
19	Ordnance and accessories.....	82	29	43	10	786	1,375	297	29	83	185	24,454	25,523
33	Primary metal industries.....	13	5	4	4	717	777	1,095	270	455	370	34,405	40,540
3312	Steel works and rolling mills...	5	2	2	1	20-99	20-99	125	1	28	96	16,701	17,039
332	Iron and steel foundries.....	xxx	xxx	xxx	xxx	xxx	xxx	379	104	180	95	5,490	7,910
3321	Gray-iron foundries.....	xxx	xxx	xxx	xxx	xxx	xxx	286	80	143	63	3,209	5,125
3322	Malleable-iron foundries.....	xxx	xxx	xxx	xxx	xxx	xxx	20	4	8	8	400	506
3323	Steel foundries.....	xxx	xxx	xxx	xxx	xxx	xxx	73	20	29	24	1,881	2,279
335	Nonferrous rolling and drawing..	5	2	...	3	652	657	84	18	22	44	3,655	3,964
3351	Copper rolling and drawing.....	2	1	...	1	20-99	20-99	41	7	11	23	1,623	1,772
3352	Aluminum rolling and drawing.....	3	1	...	2	500-999	500-999	27	5	4	18	1,793	1,854
3359	Rolling and drawing, n.e.c.....	...	...	...	...	...	...	16	6	7	3	239	338
3361	Nonferrous foundries.....	xxx	xxx	xxx	xxx	xxx	xxx	287	99	117	71	4,398	6,050
339	Primary metal industries, n.e.c.	3	1	2	...	...	26	220	48	108	64	4,161	5,577
3391	Iron and steel forgings.....	xxx	xxx	xxx	xxx	xxx	xxx	111	27	50	34	2,478	3,146
3392	Wire drawing.....	1	...	1	...	...	12	76	17	42	17	1,015	1,561
3393	Welded and heavy-riveted pipe.....	2	1	1	...	...	14	33	4	16	13	668	870
34	Fabricated metal products....	1,225	408	592	225	9,661	17,785	3,377	1,476	1,364	537	31,717	51,775
3411	Tin cans and other tinware.....	2	...	1	1	20-99	20-99	105	34	34	37	1,955	2,448
342	Cutlery, tools and hardware.....	166	93	56	17	250-499	1,000-2,499	641	238	276	127	7,323	11,230
3421	Cutlery.....	14	9	4	1	20-99	100-249	69	36	26	7	448	850
3422	Edge tools.....	5	3	1	1	20-99	20-99	61	23	24	14	674	1,020
3423	Hand tools, n.e.c.....	52	28	18	6	169	455	174	63	80	31	2,076	3,193
3424	Files.....	1	1	...	...	...	2	9	3	2	4	153	184
3425	Hand saws and saw blades.....	6	3	3	...	...	43	38	13	18	7	343	592
3429	Hardware, n.e.c.....	88	49	30	9	255	738	290	100	126	64	3,629	5,391
343	Heating and plumbing equipment..	63	34	23	6	193	554	371	134	162	75	3,555	5,834
3431	Plumbing fixtures and fittings.....	34	19	12	3	103	294	109	24	54	31	1,789	2,497
3439	Heating and cooking equipment, n.e.c.....	29	15	11	3	90	260	262	110	108	44	1,766	3,337
344	Structural metal products.....	24	19	5	...	...	107	812	444	277	91	5,222	9,656
3441	Structural and ornamental products.	9	7	2	...	...	42	327	179	115	33	1,612	3,440
3442	Metal doors, sash, and trim.....	6	5	1	...	...	24	122	57	49	16	742	1,472
3443	Boiler shop products.....	7	5	2	...	...	36	214	116	65	33	2,408	3,478
3444	Sheet-metal work.....	2	2	...	...	...	5	149	92	48	9	460	1,266
346	Metal stamping and coating.....	39	29	5	5	190	323	412	190	171	57	4,076	6,603
3461	Vitreous-enameled products.....	1	...	1	...	...	12	14	7	4	3	122	187
3463	Metal stampings.....	38	29	4	5	190	311	398	183	167	48	3,954	6,416
3471	Lighting fixtures.....	23	16	6	1	100-249	100-249	153	90	57	6	389	1,298
348	Fabricated wire products.....	16	12	2	2	20-99	100-249	233	129	86	18	500-999	1,000-2,499
3481	Nails and spikes.....	1	1	...	...	...	2	24	12	10	2	100-249	250-499
3489	Wirework, n.e.c.....	15	11	2	2	20-99	100-249	209	117	76	16	583	1,787
349	Metal products, n.e.c.....	892	205	494	193	5,000-9,999	10,000 or more	650	217	301	132	5,000-9,999	10,000 or more
3491	Metal barrels, drums, and pails....	1	...	...	1	20-99	20-99	35	9	20	6	198	461
3492	Safes and vaults.....	3	3	...	...	...	7	9	2	4	3	211	264
3493	Steel springs.....	2	...	2	...	...	24	29	17	9	3	108	259
3494	Bolts, nuts, washers, and rivets...	102	33	45	24	1,351	1,974	201	62	85	54	3,297	4,472
3495	Screw machine products.....	6784	169	447	168	7,179	12,966	354	121	168	65	4,653	6,971
3496	Collapsible tubes.....	...	...	...	...	...	...	13	3	9	1	20-99	100-249
3497	Metal foil.....	...	...	...	...	...	...	9	3	6	...	...	79
35	Machinery (except electrical)	1,246	700	397	149	10,196	16,710	9,106	2,131	4,188	2,787	301,150	356,733
351	Engines and turbines.....	27	7	10	10	500-999	500-999	93	11	17	65	23,609	23,840
3511	Steam engines and turbines.....	3	1	...	2	100-249	100-249	21	3	1	17	6,819	6,838
3519	Internal combustion engines.....	24	6	10	8	450	585	72	8	16	48	16,790	17,002

See footnotes at end of table.

Table 1.—SELECTED METALWORKING OPERATIONS, BY INDUSTRY: 1954—Continued

Code No.	Industry and industry group	Automatic screw machine department						Machine shop					
		Establishments by number of production workers in the operation				Production workers		Establishments by number of production workers in the operation				Production workers	
						Actual number employed in operations having 20 or more workers	Estimated number employed in all operations					Actual number employed in operations having 20 or more workers	Estimated number employed in all operations
		Total	1-4	5-19	20 or more	Total	1-4	5-19	20 or more	Total	1-4	5-19	20 or more
352	Machinery (except electrical)—Continued												
3521	Tractors and farm machinery.....	71	35	26	10	250-499	500-999	553	228	204	121	22,651	25,669
3522	Tractors.....	20	3	8	9	358	461	82	26	16	40	16,357	16,614
	Farm machinery (except tractors)....	51	32	18	1	20-99	250-499	471	202	188	81	6,294	9,055
353	Construction and mining machinery.....	57	35	20	2	100-249	500-999	546	110	211	225	22,971	25,778
3531	Construction and mining machinery..	41	28	11	2	100-249	250-499	344	68	132	144	13,800	15,554
3532	Oil-field machinery and tools.....	16	7	9	...	...	126	202	42	79	81	9,171	10,224
354	Metalworking machinery.....	253	147	90	16	942	2,390	1,763	360	803	600	70,361	80,897
3541	Machine tools.....	70	38	23	9	547	918	311	35	93	183	32,390	33,593
3542	Metalworking machinery.....	48	26	18	4	292	573	271	33	103	135	19,472	20,791
3544	Special dies and tools.....	55	32	23	...	...	356	799	222	428	149	7,040	12,731
3545	Metalworking machinery attachments.	80	51	26	3	103	543	382	70	179	133	11,459	13,782
355	Special-industry machinery, n.e.c.....	152	96	43	13	610	1,366	1,357	293	590	474	44,241	52,053
3551	Food-products machinery.....	33	23	8	2	100-249	250-499	336	98	154	84	6,994	9,087
3552	Textile machinery.....	47	27	14	6	366	601	240	62	103	75	10,879	12,270
3553	Woodworking machinery.....	15	14	1	...	...	47	128	19	63	46	2,880	3,683
3554	Paper-industries machinery.....	2	1	1	...	...	14	113	10	35	68	6,315	6,760
3555	Printing-trades machinery.....	16	8	7	1	20-99	100-249	117	22	44	51	5,912	6,495
3559	Special-industry machinery, n.e.c..	39	23	12	4	119	321	423	82	191	150	11,261	13,758
356	General industrial machinery....	186	115	56	15	500-999	1,000-2,499	1,310	319	524	467	43,605	50,690
3561	Pumps and compressors.....	51	28	17	6	327	601	280	41	101	138	14,784	16,098
3562	Elevators and escalators.....	5	2	2	1	20-99	20-99	78	29	37	12	953	1,469
3563	Conveyors.....	15	8	7	...	...	104	204	76	86	42	3,353	4,575
3564	Blowers and fans.....	5	5	...	...	...	12	71	27	28	16	1,195	1,598
3565	Industrial trucks and tractors.....	10	10	...	...	...	25	98	33	44	21	1,753	2,364
3566	Power-transmission equipment.....	70	40	22	8	424	788	305	33	113	159	16,229	17,668
3567	Industrial furnaces and ovens.....	5	3	2	...	...	31	57	26	19	12	875	1,168
3568	Mechanical stokers.....	...	...	...	...	...	...	17	9	4	4	156	226
3569	General industrial machinery, n.e.c.	25	19	6	...	...	120	200	45	92	63	4,307	5,524
357	Office and store machines.....	55	20	19	16	1,000-2,499	1,000-2,499	142	31	61	50	11,764	12,573
3571	Computing and related machines.....	19	2	7	10	1,595	1,684	40	4	17	19	9,771	9,985
3572	Typewriters.....	9	3	1	5	519	538	7	...	1	6	360	372
3576	Scales and balances.....	8	5	3	...	...	49	37	12	16	9	650	872
3579	Office and store machines, n.e.c....	19	10	8	1	20-99	100-249	58	15	27	16	983	1,344
358	Service and household machines..	92	42	33	17	500-999	1,000-2,499	426	131	172	123	15,837	18,228
3581	Domestic laundry equipment.....	17	6	8	3	107	218	31	2	8	21	2,243	2,344
3582	Laundry and dry-cleaning machinery.	10	6	3	1	100-249	100-249	52	16	22	14	1,384	1,688
3583	Sewing machines.....	11	5	3	3	130	178	37	9	18	10	3,305	3,544
3584	Vacuum cleaners.....	8	2	5	1	20-99	20-99	18	3	9	6	446	561
3585	Refrigeration machinery.....	25	11	8	6	269	393	170	67	59	44	6,998	7,873
3586	Measuring and dispensing pumps....	8	3	2	3	153	184	21	2	10	9	657	782
3589	Service and household machines, n.e.c.....	13	9	4	...	...	71	97	32	46	19	804	1,436
359	Miscellaneous machinery parts...	353	203	100	50	3,666	5,373	2,916	648	1,606	662	46,111	67,003
3591	Valves and fittings, except plumbing.....	89	44	27	18	1,387	1,821	349	43	142	164	17,143	18,954
3593	Ball and roller bearings.....	51	12	13	26	1,967	2,153	71	7	29	35	4,160	4,526
3594	Industrial patterns and molds.....	5	2	3	...	...	41	113	29	59	25	1,500	2,280
3599	Machine shops.....	208	145	57	6	312	1,358	72,383	569	1,376	438	23,308	41,243
36	Electrical machinery.....	375	192	121	62	4,666	6,598	1,582	552	629	401	38,980	47,908
361	Electrical industrial apparatus.....	180	95	56	29	1,000-2,499	2,500-4,999	679	203	270	206	10,000 or more	10,000 or more
3611	Wiring devices and supplies.....	52	31	15	6	337	595	127	37	51	39	2,532	3,236
3612	Carbon and graphite products.....	2	1	1	...	...	14	16	8	7	1	20-99	100-249
3614	Motors and generators.....	59	25	20	14	850	1,152	188	27	76	85	13,937	14,916
3615	Transformers.....	3	1	2	...	...	26	49	21	19	9	1,543	1,823
3616	Electrical control apparatus.....	51	27	16	8	380	640	172	67	56	49	3,624	4,464
3617	Electrical welding apparatus.....	7	6	1	...	...	27	64	10	35	19	824	1,269
3619	Electrical industrial apparatus, n.e.c.....	6	4	1	1	20-99	20-99	63	33	26	4	429	824
3621	Electrical appliances.....	23	15	4	4	262	348	76	34	23	19	1,765	2,126
3631	Insulated wire and cable.....	1	1	...	...	...	2	34	18	14	2	20-99	250-499
3641	Engine electrical equipment.....	34	11	12	11	1,065	1,237	59	22	20	17	1,899	2,194
3651	Electric lamps (bulbs).....	3	3	...	...	...	7	25	4	19	2	100-249	250-499

See footnotes at end of table.

MANUFACTURES--SUMMARY STATISTICS

Table 1.--SELECTED METALWORKING OPERATIONS, BY INDUSTRY: 1954--Continued

Code No.	Industry and industry group	Automatic screw machine department						Machine shop					
		Establishments by number of production workers in the operation				Production workers		Establishments by number of production workers in the operation				Production workers	
		Total	1-4	5-19	20 or more	Actual number employed in operations having 20 or more workers	Estimated number employed in all operations	Total	1-4	5-19	20 or more	Actual number employed in operations having 20 or more workers	Estimated number employed in all operations
366	Electrical machinery--Con.												
3661	Communication equipment.....	120	57	46	17	1,000-2,499	1,000-2,499	605	224	241	140	10,000 or more	10,000 or more
3662	Radios and related products.....	84	38	37	9	301	840	469	191	185	93	6,491	9,189
3663	Electronic tubes.....	7	5	2	...	...	36	56	10	26	20	1,553	1,890
3664	Phonograph records.....	1	...	1	...	...	12	7	1	5	1	20-99	20-99
3665	Telephone and telegraph equipment..	20	8	5	7	1,332	1,412	41	8	15	18	2,809	3,009
3669	Communication equipment, n.e.c.....	8	6	1	1	20-99	100-249	32	14	10	8	462	617
369	Miscellaneous electrical prod- ucts.....	14	10	3	1	20-99	20-99	104	47	42	15	500-999	1,000-2,499
3691	Storage batteries.....	3	1	2	...	...	27	20	14	5	1	20-99	100-249
3692	Primary batteries.....	...	...	...	...	...	...	23	11	8	4	233	356
3693	X-ray and therapeutic apparatus....	10	8	1	1	20-99	20-99	30	8	17	5	340	564
3699	Electrical products, n.e.c.....	1	1	...	...	...	2	31	14	12	5	145	324
37	Transportation equipment.....	336	130	120	86	6,359	8,124	1,813	410	658	745	167,970	176,891
371	Motor vehicles and equipment....	149	40	61	48	2,500-4,999	2,500-4,999	623	163	213	247	10,000 or more	10,000 or more
3713	Truck and bus bodies.....	3	3	...	...	...	7	102	46	46	10	399	1,066
3715	Truck trailers.....	1	...	...	1	20-99	20-99	54	21	24	9	344	684
3716	Automobile trailers.....	4	1	3	...	...	38	34	15	17	2	100-249	250-499
3717	Motor vehicles and parts.....	141	36	58	47	3,535	4,321	433	81	126	226	83,264	84,979
372	Aircraft and parts.....	162	80	49	33	2,500-4,999	2,500-4,999	767	90	273	404	74,211	77,712
3721	Aircraft.....	23	12	8	3	81	207	61	7	8	46	16,767	16,880
3722	Aircraft engines.....	42	16	9	17	1,960	2,108	158	9	39	110	25,701	26,192
3723	Aircraft propellers.....	4	2	1	1	20-99	20-99	14	2	3	9	4,026	4,067
3729	Aircraft equipment, n.e.c.....	93	50	31	12	552	1,049	534	72	223	239	27,717	30,573
373	Ships and boats.....	3	2	1	...	...	17	327	130	139	58	5,000-9,999	5,000-9,999
3731	Ship building and repairing.....	2	1	1	...	...	15	200	53	90	57	5,314	6,526
3732	Boat building and repairing.....	1	1	...	...	...	2	127	77	49	1	20-99	500-999
374	Railroad equipment.....	10	4	3	3	105	151	52	5	20	27	3,514	3,766
3741	Locomotives and parts.....	5	4	...	1	20-99	20-99	22	1	9	12	2,015	2,125
3742	Railroad and street cars.....	5	...	3	2	20-99	100-249	30	4	11	15	1,499	1,641
3751	Motorcycles and bicycles.....	9	1	6	2	20-99	100-249	21	8	5	8	779	859
3799	Transportation equipment, n.e.c.	3	3	...	...	...	7	23	14	8	1	20-99	100-249

xxx Not applicable.

¹Excludes data for establishments which are primarily engaged in the manufacture and sale of rough castings including die castings. In 1954 the number of establishments classified in each of the commercial foundry industries was as follows: Industry 3321, Gray-Iron Foundries, 1,414 establishments; Industry 3322, Malleable-Iron Foundries, 81 establishments; Industry 3323, Steel Foundries, 239 establishments; Industry 3361, Nonferrous Foundries, 1,920 establishments.

²Excludes data for establishments which are primarily engaged in the manufacture and sale of unmachined forgings. In 1954 a total of 259 of these commercial forge shops was classified in Industry 3391, Iron and Steel Forgings, and an undetermined number of nonferrous forge shops was classified in Industry 3399, Primary Metals Industries, N.E.C. Also excluded from these statistics are data on forging operations used in the manufacture of bolts, nuts, and related products.

³Excludes data for the 2,451 establishments classified in Industry 3468, Plating and Polishing. These establishments usually are engaged in work on materials owned by others and generally perform electroplating operations.

⁴Excludes data for the 133 establishments classified in Industry 3466, Galvanizing, which are primarily engaged in galvanizing and other hot-dip coating, usually on materials owned by others.

⁵As Industry 3463 is comprised of establishments primarily engaged in producing metal stampings, all establishments reporting the metalworking operations inquiry should have reported the "stamping, blanking, forming, and drawing operation." However, 134 of the 1,436 establishments which completed the inquiry did not report such an operation.

⁶As Industry 3495 is comprised of establishments primarily engaged in producing screw machine products, all establishments reporting the metalworking inquiry should have reported the "automatic screw machine" operation. However, 109 of the 893 establishments which completed the inquiry did not report such an operation.

⁷The nature of the operations of establishments classified in Industry 3599 indicates that all establishments reporting the metalworking inquiry should have reported "machine shop operations." However, 343 of the 2,726 establishments which answered the inquiry did not report such an operation.

SELECTED METALWORKING OPERATIONS

212-15

Note to Table 1.--SELECTED METALWORKING OPERATIONS, BY INDUSTRY: 1954

The coverage ratios given below show the relationship of the total number of establishments and employees for plants which reported one or more of the selected metalworking operations to all establishments and employees in the same industry or industry group. In each instance the employment ratio is related to the total employment of plants answering the metalworking inquiry rather than the number of production workers engaged in metalworking operations.

Code no.	Coverage of metalworking operations		Code no.	Coverage of metalworking operations		Code no.	Coverage of metalworking operations	
	Percent of total establishments reporting on metalworking operations	Percent of total employment accounted for by establishments reporting on metalworking operations		Percent of total establishments reporting on metalworking operations	Percent of total employment accounted for by establishments reporting on metalworking operations		Percent of total establishments reporting on metalworking operations	Percent of total employment accounted for by establishments reporting on metalworking operations
Total	58	97	3494	72	98	359	41	89
19	83	93	3495	50	87	3591	75	96
			3496	90	99	3593	95	99
33	69	98	3497	74	98	3594	30	64
3312	98					3599	40	82
332	77	96	35	51	94	36	63	95
3321	75	94	351	76	97	361	70	96
3322	90	99	3511	95	99	3611	70	91
3323	87	98	3519	72	95	3612	79	99
335	86	99	352	56	97	3614	78	99
3351	92	99	3521	65	99	3615	70	98
3352	79	98	3522	55	95	3616	68	96
3359	87	96				3617	70	97
3361	51	89	353	68	97	3619	63	86
339	82	98	3531	68	97	3621	57	97
3391	82	99	3532	68	98	3631	68	94
3392	82	97	354	50	91	3641	69	94
3393	83	98	3541	56	97	3651	88	99
34	57	95	3542	61	88			
3411	83	99	3544	46	84	366	61	93
342	57	95	3545	56	94	3661	61	90
3421	62	98				3662	83	99
3422	55	92	355	60	95	3663	43	94
3423	52	93	3551	60	93	3664	81	99
3424	50	96	3552	63	97	3669	45	96
3425	57	95	3553	61	87			
3429	59	96	3554	75	98	369	52	95
343	62	97	3555	53	96	3691	53	96
3431	54	97	3559	57	95	3692	88	99
3439	65	97				3693	45	90
344	53	93	356	67	96	3699	47	90
3441	52	93	3561	67	96			
3442	56	88	3562	71	96	37	60	99
3443	71	99	3563	70	96			
3444	47	87	3564	71	98	371	65	99
346	64	96	3565	60	96	3713	57	92
3461	80	96	3566	73	96	3715	86	99
3463	63	96	3567	60	95	3716	64	94
3471	53	91	3568	80	98	3717	66	99
348	57	93	3569	59	96			
3481	70	92				372	69	99
3489	56	93	357	54	98	3721	94	99
349	57	95	3571	71	99	3722	86	99
3491	90	98	3572	83	99	3723	94	99
3492	58	97	3576	58	99	3729	64	97
3493	67	97	3579	45	85			
						373	44	96
			358	64	97	3731	81	99
			3581	73	98	3732	33	77
			3582	60	96			
			3583	51	94	374	80	98
			3584	69	98	3741	86	99
			3585	66	98	3742	77	98
			3586	72	80	3751	70	98
			3589	62	96	3799	51	87

MANUFACTURES—SUMMARY STATISTICS

Table 2.—SELECTED METALWORKING OPERATIONS, BY DIVISIONS AND STATES: 1954

Division and State	Foundry (except die casting) (excludes establishments classified in the Foundry industries)					
	Establishments by number of production workers in the operation				Production workers	
	Total	1-4	5-19	20 or more	Actual number employed in operations having 20 or more workers	Estimated number employed in all operations
United States, total.....	1,449	326	439	684	79,338	85,422
New England.....	141	31	40	70	6,117	6,675
Maine.....	9	2	3	4	282	324
New Hampshire.....	6	...	2	4	188	212
Vermont.....	7	2	2	3	343	372
Massachusetts.....	51	11	18	22	1,975	2,219
Rhode Island.....	10	3	2	5	576	607
Connecticut.....	58	13	13	32	2,753	2,941
Middle Atlantic.....	335	73	100	162	21,048	22,431
New York.....	118	30	45	43	5,188	5,803
New Jersey.....	56	17	16	23	2,471	2,706
Pennsylvania.....	161	26	39	96	13,389	13,922
East North Central.....	480	87	138	255	34,849	36,722
Ohio.....	144	25	48	71	7,062	7,700
Indiana.....	55	6	14	35	3,943	4,126
Illinois.....	109	24	30	55	9,686	10,106
Michigan.....	107	21	33	53	9,413	9,861
Wisconsin.....	65	11	13	41	4,745	4,929
West North Central.....	112	28	33	51	2,500-4,999	2,500-4,999
Minnesota.....	22	3	8	11	643	746
Iowa.....	26	4	4	18	2,111	2,169
Missouri.....	31	10	10	11	605	750
North Dakota.....	1	...	...	1	20-99	20-99
South Dakota.....	2	1	1	...	...	14
Nebraska.....	12	5	3	4	311	360
Kansas.....	18	5	7	6	571	668
South Atlantic.....	97	20	39	38	2,500-4,999	2,500-4,999
Delaware.....	3	...	1	2	100-249	100-249
Maryland.....	13	2	3	8	827	868
District of Columbia.....	...	...	...	...	...	...
Virginia.....	17	2	10	5	522	647
West Virginia.....	8	2	1	5	447	464
North Carolina.....	19	5	8	6	290	399
South Carolina.....	6	...	3	3	198	234
Georgia.....	23	6	11	6	356	503
Florida.....	8	3	2	3	66	97
East South Central.....	70	7	17	46	6,503	6,724
Kentucky.....	12	...	5	7	2,471	2,531
Tennessee.....	27	1	5	21	2,167	2,229
Alabama.....	26	4	4	18	1,865	1,923
Mississippi.....	5	2	3	...	...	41
West South Central.....	59	19	21	19	1,000-2,499	1,000-2,499
Arkansas.....	4	2	1	1	20-99	20-99
Louisiana.....	7	1	3	3	229	267
Oklahoma.....	12	3	5	4	215	283
Texas.....	36	13	12	11	893	1,070
Mountain.....	19	9	4	6	250-499	250-499
Montana.....	1	1	...	...	...	3
Idaho.....	2	2	...	...	...	5
Wyoming.....	...	...	...	...	...	...
Colorado.....	12	5	3	4	293	342
New Mexico.....	1	...	...	1	20-99	20-99
Arizona.....	...	...	...	...	...	...
Utah.....	3	1	1	1	20-99	100-249
Nevada.....	...	...	...	...	...	...
Pacific.....	136	52	47	37	1,000-2,499	2,500-4,999
Washington.....	20	8	8	4	315	431
Oregon.....	10	3	5	2	20-99	100-249
California.....	106	41	34	31	1,599	2,110

See footnotes at end of table.

Table 2.—SELECTED METALWORKING OPERATIONS, BY DIVISIONS AND STATES: 1954—Continued

Division and State	Die casting, nonferrous metal only (excludes establishments classified in the Nonferrous foundries industry)						The Foundry industries (S.I.C. Codes 3321, 3322, 3323 and 3361) ¹	
	Establishments by number of production workers in the operation				Production workers		Number of establish- ments	Number of production workers
	Total	1-4	5-19	20 or more	Actual number employed in operations having 20 or more workers	Estimated number employed in all operations		
United States, total...	510	281	157	72	6,491	9,077	3,654	254,721
New England.....	27	15	9	3	122	267	314	10,820
Maine.....	...	...	...	...	...	...	12	(D)
New Hampshire.....	...	...	...	...	...	...	14	(D)
Vermont.....	...	...	...	...	...	...	11	(D)
Massachusetts.....	15	10	4	1	20-99	100-249	151	(D)
Rhode Island.....	...	...	...	...	...	...	29	430
Connecticut.....	12	5	5	2	20-99	100-249	97	(D)
Middle Atlantic.....	117	69	37	11	1,000-2,499	1,000-2,499	779	51,320
New York.....	51	29	16	6	327	592	278	(D)
New Jersey.....	28	18	8	2	500-999	500-999	164	(D)
Pennsylvania.....	38	22	13	3	71	282	337	27,923
East North Central.....	201	93	66	42	4,345	5,370	1,349	125,296
Ohio.....	46	23	14	9	1,076	1,302	395	38,621
Indiana.....	24	8	8	8	1,119	1,235	152	16,108
Illinois.....	65	35	23	7	577	940	339	23,884
Michigan.....	49	19	16	14	1,421	1,661	298	34,317
Wisconsin.....	17	8	5	4	152	232	165	12,358
West North Central.....	42	22	13	7	500-999	500-999	251	11,324
Minnesota.....	6	4	2	...	...	34	64	(D)
Iowa.....	10	7	1	2	100-249	100-249	53	(D)
Missouri.....	13	3	5	5	507	574	94	(D)
North Dakota.....	...	...	...	...	...	...	2	(D)
South Dakota.....	...	...	...	...	...	...	1	(D)
Nebraska.....	1	1	...	...	...	2	10	(D)
Kansas.....	12	7	5	...	...	78	27	(D)
South Atlantic.....	11	6	4	1	20-99	100-249	183	(D)
Delaware.....	...	...	...	...	...	...	4	(D)
Maryland.....	...	...	...	...	...	...	23	(D)
District of Columbia.....	...	...	...	...	...	...	...	...
Virginia.....	2	1	1	...	...	14	33	(D)
West Virginia.....	1	...	...	1	20-99	20-99	18	(D)
North Carolina.....	2	1	1	...	...	14	37	(D)
South Carolina.....	...	...	...	...	...	...	8	(D)
Georgia.....	3	1	2	...	...	27	32	(D)
Florida.....	3	3	...	...	...	8	28	(D)
East South Central.....	12	8	4	...	...	68	118	(D)
Kentucky.....	4	4	...	...	...	10	13	(D)
Tennessee.....	6	3	3	...	...	44	38	(D)
Alabama.....	2	1	1	...	...	14	63	(D)
Mississippi.....	...	...	...	...	...	...	4	(D)
West South Central.....	19	13	5	1	20-99	100-249	152	(D)
Arkansas.....	2	1	1	...	...	14	12	(D)
Louisiana.....	1	1	...	...	...	2	14	(D)
Oklahoma.....	4	3	1	...	...	20	29	(D)
Texas.....	12	8	3	1	20-99	20-99	97	(D)
Mountain.....	9	6	2	1	20-99	20-99	54	(D)
Montana.....	...	...	...	...	...	...	3	126
Idaho.....	...	...	...	...	...	...	4	(D)
Wyoming.....	...	...	...	...	...	...	...	...
Colorado.....	6	4	1	1	20-99	20-99	27	(D)
New Mexico.....	...	...	...	...	...	...	2	(D)
Arizona.....	1	1	...	...	...	3	5	(D)
Utah.....	2	1	1	...	...	14	13	(D)
Nevada.....	...	...	...	...	...	...	...	...
Pacific.....	72	49	17	6	231	557	454	(D)
Washington.....	2	2	...	...	...	5	50	1,024
Oregon.....	3	1	2	...	...	26	46	1,424
California.....	67	46	15	6	231	526	358	(D)

See footnote at end of table.

MANUFACTURES—SUMMARY STATISTICS

Table 2.—SELECTED METALWORKING OPERATIONS BY DIVISIONS AND STATES: 1954—Continued

Division and State	Forging—presses, hammers or upsetters (excludes establishments classified in the Iron and steel forgings industry)					Iron and steel forgings industry (S.I.C. Code 3391) ²		
	Establishments by number of production workers in the operation				Production workers		Number of establish- ments	Number of production workers
	Total	1-4	5-19	20 or more	Actual number employed in operations having 20 or more workers	Estimated number employed in all operations		
United States, total...	1,287	582	452	253	17,501	24,379	259	33,012
New England.....	131	63	48	20	1,180	1,913	29	(D)
Maine.....	9	5	2	2	100-249	100-249	...	...
New Hampshire.....	7	5	2	...	...	37	1	(D)
Vermont.....	3	2	1	...	...	17	...	...
Massachusetts.....	55	28	22	5	370	704	13	2,235
Rhode Island.....	6	4	...	2	20-99	100-249	1	(D)
Connecticut.....	51	19	21	11	566	865	14	(D)
Middle Atlantic.....	339	160	105	74	5,538	7,198	61	8,283
New York.....	114	74	21	19	923	1,360	23	3,157
New Jersey.....	54	34	17	3	96	385	11	791
Pennsylvania.....	171	52	67	52	4,519	5,453	27	4,335
East North Central.....	416	162	148	106	8,250	10,431	124	(D)
Ohio.....	141	58	53	30	1,726	2,507	38	6,300
Indiana.....	44	18	13	13	988	1,189	10	(D)
Illinois.....	116	43	44	29	1,852	2,488	35	4,626
Michigan.....	69	27	20	22	3,121	3,428	32	3,805
Wisconsin.....	46	16	18	12	563	819	9	4,176
West North Central.....	89	39	37	13	695	1,236	2	(D)
Minnesota.....	18	9	5	4	267	349	...	...
Iowa.....	23	10	9	4	153	286	2	(D)
Missouri.....	34	13	16	5	275	500	...	...
North Dakota.....	1	1	...	...	...	2	...	...
South Dakota.....	...	...	...	...	...	...	...	...
Nebraska.....	5	4	1	...	...	22	...	...
Kansas.....	8	2	6	...	...	77	...	...
South Atlantic.....	72	40	20	12	500-999	500-999	4	(D)
Delaware.....	1	...	1	...	...	12	...	...
Maryland.....	14	8	3	3	178	234	2	(D)
District of Columbia.....	1	1	...	...	...	2	...	...
Virginia.....	10	7	2	1	20-99	20-99	1	(D)
West Virginia.....	12	4	4	4	192	250	...	...
North Carolina.....	14	11	3	...	...	64	...	...
South Carolina.....	1	1	...	...	...	2	...	...
Georgia.....	11	1	6	4	145	219	...	...
Florida.....	8	7	1	...	...	30	1	(D)
East South Central.....	46	19	17	10	500	751	2	(D)
Kentucky.....	11	2	5	4	223	288	1	(D)
Tennessee.....	12	5	4	3	87	147	1	(D)
Alabama.....	20	10	7	3	190	299	...	...
Mississippi.....	3	2	1	...	...	17	...	...
West South Central.....	66	31	29	6	371	797	7	(D)
Arkansas.....	3	1	2	...	...	26	...	...
Louisiana.....	10	7	1	2	20-99	20-99	1	(D)
Oklahoma.....	6	2	3	1	20-99	20-99	1	(D)
Texas.....	47	21	23	3	284	613	5	209
Mountain.....	10	2	6	2	20-99	100-249	...	...
Montana.....	...	...	...	...	...	...	...	...
Idaho.....	...	...	...	...	...	...	...	...
Wyoming.....	...	...	...	...	...	...	...	...
Colorado.....	8	1	6	1	20-99	100-249	...	...
New Mexico.....	...	...	...	...	...	...	...	...
Arizona.....	...	...	...	...	...	...	...	...
Utah.....	2	1	...	1	20-99	20-99	...	...
Nevada.....	...	...	...	...	...	...	...	...
Pacific.....	118	66	42	10	250-499	1,000-2,499	30	780
Washington.....	18	11	4	3	119	195	3	(D)
Oregon.....	12	9	2	1	20-99	20-99	3	(D)
California.....	88	46	36	6	205	752	24	660

See footnote at end of table.

SELECTED METALWORKING OPERATIONS

212-19

Table 2.—SELECTED METALWORKING OPERATIONS BY DIVISION AND STATES: 1954—Continued

Division and State	Total establishments having plating and polishing operations	Establishments classified in the plating and polishing industry (S.I.C. Code 3468) ³	Electroplating (excludes establishments classified in the plating and polishing industry)						Production workers employed in plating and polishing industry (S.I.C. Code 3468) ³	Total production workers employed in plating and polishing operations
			Establishments by number of production workers in the operation				Production workers			
			Total	1-4	5-19	20 or more	Actual number employed in operations having 20 or more workers	Estimated number employed in all operations		
United States, total...	4,442	2,451	1,991	1,045	685	261	15,776	26,606	31,221	57,829
New England.....	558	299	259	145	89	25	1,487	2,918	3,707	6,625
Maine.....	1	...	1	...	1	...	...	12	...	12
New Hampshire.....	15	2	13	9	4	...	...	71	(D)	(D)
Vermont.....	8	3	5	3	2	...	...	31	(D)	(D)
Massachusetts.....	202	112	90	53	32	5	222	738	1,330	2,068
Rhode Island.....	98	88	10	7	3	...	...	54	923	977
Connecticut.....	234	94	140	73	47	20	1,265	2,012	1,419	3,431
Middle Atlantic.....	1,182	656	526	293	175	58	2,706	5,538	7,623	13,161
New York.....	655	426	229	130	73	26	1,343	2,544	5,017	7,561
New Jersey.....	245	122	123	78	34	11	579	1,182	1,348	2,530
Pennsylvania.....	282	108	174	85	68	21	784	1,812	1,258	3,070
East North Central.....	1,588	857	731	334	265	132	9,319	13,334	13,819	27,153
Ohio.....	435	212	223	107	87	29	2,232	3,544	3,880	7,424
Indiana.....	166	72	94	43	32	19	1,123	1,615	959	2,574
Illinois.....	465	266	199	92	73	34	2,111	3,217	4,162	7,379
Michigan.....	393	247	146	61	44	41	3,532	4,212	4,085	8,297
Wisconsin.....	129	60	69	31	29	9	321	746	731	1,477
West North Central.....	231	103	128	78	39	11	383	1,044	1,075	2,121
Minnesota.....	55	30	25	14	11	...	...	167	382	549
Iowa.....	33	8	25	15	8	2	20-99	100-249	(D)	(D)
Missouri.....	105	50	55	34	14	7	265	518	522	1,040
North Dakota.....	1	1	...	...	...	...	...	...	(D)	(D)
South Dakota.....	...	...	...	...	...	...	...	...	...	...
Nebraska.....	12	2	10	9	1	...	...	34	(D)	(D)
Kansas.....	25	12	13	6	5	2	20-99	100-249	(D)	(D)
South Atlantic.....	138	62	76	39	27	10	500-999	1,000-2,499	524	(D)
Delaware.....	2	1	1	...	...	1	20-99	20-99	(D)	(D)
Maryland.....	35	12	23	9	10	4	264	407	93	500
District of Columbia.....	8	6	2	2	...	...	...	5	(D)	(D)
Virginia.....	20	6	14	11	3	...	...	64	27	91
West Virginia.....	7	2	5	1	...	4	307	309	(D)	(D)
North Carolina.....	16	5	11	5	5	1	20-99	20-99	29	(D)
South Carolina.....	5	2	3	1	2	...	...	26	(D)	(D)
Georgia.....	26	10	16	9	7	...	...	107	(D)	(D)
Florida.....	19	18	1	1	...	...	...	2	(D)	(D)
East South Central.....	72	36	36	18	14	4	100-249	250-499	242	(D)
Kentucky.....	23	10	13	6	4	3	130	193	(D)	(D)
Tennessee.....	30	18	12	7	5	...	...	78	(D)	(D)
Alabama.....	17	7	10	5	4	1	20-99	100-249	53	(D)
Mississippi.....	2	1	1	...	1	...	...	12	(D)	(D)
West South Central.....	106	67	39	28	11	...	...	202	467	669
Arkansas.....	6	3	3	3	...	...	...	7	(D)	(D)
Louisiana.....	9	7	2	2	...	...	...	5	(D)	(D)
Oklahoma.....	28	16	12	11	1	...	...	40	101	141
Texas.....	63	41	22	12	10	...	...	150	343	493
Mountain.....	31	15	16	12	4	...	...	78	99	177
Montana.....	2	1	1	1	...	...	...	2	(D)	(D)
Idaho.....	1	1	...	...	...	...	...	...	(D)	(D)
Wyoming.....	1	...	1	1	...	...	...	2	(D)	(D)
Colorado.....	16	7	9	7	2	...	...	41	60	101
New Mexico.....	1	...	1	1	...	...	...	3	(D)	(D)
Arizona.....	7	4	3	1	2	...	...	27	(D)	(D)
Utah.....	2	1	1	1	...	...	...	3	(D)	(D)
Nevada.....	1	1	...	...	...	...	...	...	(D)	(D)
Pacific.....	536	356	180	98	61	21	1,000-2,499	1,000-2,499	3,662	(D)
Washington.....	20	11	9	7	...	2	100-249	100-249	103	(D)
Oregon.....	15	11	4	2	2	...	...	29	88	117
California.....	501	334	167	89	59	19	938	1,868	3,470	5,338

See footnote at end of table.

MANUFACTURES—SUMMARY STATISTICS

Table 2.—SELECTED METALWORKING OPERATIONS, BY DIVISIONS AND STATES: 1954—Continued

Division and State	Total establishments having galvanizing and other hot-dip coating operations	Establishments classified in the Galvanizing and other hot-dip coating industry (S.I.C. Code 3466)	Galvanizing and other hot-dip coating (excludes establishments classified in the Galvanizing industry)						Production workers employed in the Galvanizing and other hot-dip coating industry (S.I.C. Code 3466)	Total production workers employed in galvanizing and other hot-dip coating operations
			Establishments by number of production workers in the operation				Production workers			
			Total	1-4	5-9	20 or more	Actual number employed in operations having 20 or more workers	Estimated number employed in all operations		
United States, total	1,020	133	887	447	312	128	7,478	12,338	2,685	15,024
New England.....	103	10	93	51	35	7	250-499	500-999	156	(D)
Maine.....	1	...	1	...	1	...	...	12	...	12
New Hampshire.....	4	...	4	4	...	...	...	10	...	10
Vermont.....	1	...	1	1	...	...	...	2	...	2
Massachusetts.....	50	8	42	18	21	3	98	395	(D)	(D)
Rhode Island.....	8	2	6	2	3	1	100-249	100-249	(D)	(D)
Connecticut.....	39	...	39	26	10	3	110	295	...	295
Middle Atlantic.....	258	30	228	126	63	39	1,668	2,739	1,164	3,903
New York.....	107	11	96	58	28	10	309	790	488	1,278
New Jersey.....	54	10	44	31	7	6	252	414	282	696
Pennsylvania.....	97	9	88	37	28	23	1,107	1,535	394	1,929
East North Central.....	374	41	333	152	130	51	2,500-4,999	5,000-9,999	695	(D)
Ohio.....	108	8	100	43	33	24	1,499	2,003	158	2,161
Indiana.....	49	4	45	25	13	7	704	922	(D)	(D)
Illinois.....	102	18	84	37	31	16	837	1,301	307	1,608
Michigan.....	83	9	74	32	39	3	108	656	75	731
Wisconsin.....	32	2	30	15	14	1	20-99	250-499	(D)	(D)
West North Central.....	59	6	53	28	21	4	173	495	82	577
Minnesota.....	16	1	15	8	5	2	20-99	100-249	(D)	(D)
Iowa.....	7	1	6	4	2	...	...	34	(D)	(D)
Missouri.....	27	3	24	12	10	2	20-99	100-249	(D)	(D)
North Dakota.....	...	...	...	...	...	...	...	...	...	...
South Dakota.....	...	...	...	...	...	...	...	...	...	...
Nebraska.....	5	1	4	3	1	...	...	20	(D)	(D)
Kansas.....	4	...	4	1	3	...	...	38	...	38
South Atlantic.....	46	7	39	20	13	6	500-999	1,000-2,499	(D)	(D)
Delaware.....	1	...	1	...	1	...	...	12	...	12
Maryland.....	17	3	14	5	4	5	793	854	(D)	(D)
District of Columbia...	...	...	...	...	...	...	...	...	...	...
Virginia.....	7	...	7	5	2	...	...	37	...	37
West Virginia.....	4	...	4	2	1	1	100-249	100-249	...	(D)
North Carolina.....	3	1	2	2	...	...	...	5	(D)	(D)
South Carolina.....	...	...	...	...	...	...	...	...	...	...
Georgia.....	4	1	3	1	2	...	...	26	(D)	(D)
Florida.....	10	2	8	5	3	...	...	48	(D)	(D)
East South Central.....	27	3	24	7	11	6	250-499	500-999	(D)	(D)
Kentucky.....	7	...	7	4	1	2	100-249	100-249	...	(D)
Tennessee.....	11	1	10	3	7	...	...	92	(D)	(D)
Alabama.....	9	2	7	...	3	4	318	354	(D)	(D)
Mississippi.....	...	...	...	...	...	...	...	...	...	...
West South Central.....	36	7	29	17	8	4	100-249	250-499	(D)	(D)
Arkansas.....	1	...	1	1	...	...	...	2	...	2
Louisiana.....	5	2	3	2	1	...	...	17	(D)	(D)
Oklahoma.....	10	3	7	5	1	1	20-99	20-99	(D)	(D)
Texas.....	20	2	18	9	6	3	102	196	(D)	(D)
Mountain.....	11	4	7	4	2	1	100-249	100-249	(D)	(D)
Montana.....	...	...	...	...	...	...	...	...	...	...
Idaho.....	1	1	...	...	...	...	...	...	(D)	(D)
Wyoming.....	...	...	...	...	...	...	...	...	...	...
Colorado.....	5	2	3	1	1	1	100-249	100-249	(D)	(D)
New Mexico.....	...	...	...	...	...	...	...	...	...	...
Arizona.....	3	1	2	1	1	...	...	15	(D)	(D)
Utah.....	2	...	2	2	...	...	...	5	...	5
Nevada.....	...	...	...	...	...	...	...	...	...	...
Pacific.....	106	25	81	42	29	10	250-499	500-999	(D)	(D)
Washington.....	13	3	10	3	6	1	20-99	100-249	(D)	(D)
Oregon.....	6	3	3	1	2	...	...	26	23	49
California.....	87	19	68	38	21	9	438	785	231	1,016

See footnotes at end of table.

SELECTED METALWORKING OPERATIONS

212-21

Table 2.—SELECTED METALWORKING OPERATIONS, BY DIVISIONS AND STATES: 1954—Continued

Division and State	Heat treating and annealing of metals for production purposes					
	Establishments by number of production workers in the operation				Production workers	
	Total	1-4	5-19	20 or more	Actual number employed in operations having 20 or more workers	Estimated number employed in all operations
United States, total.....	4,148	2,724	980	444	24,985	43,554
New England.....	573	389	124	60	2,500-4,999	2,500-4,999
Maine.....	12	10	2	...	...	49
New Hampshire.....	24	20	4	...	...	98
Vermont.....	11	7	3	1	20-99	20-99
Massachusetts.....	238	177	42	19	668	1,615
Rhode Island.....	35	18	11	6	245	422
Connecticut.....	253	157	62	34	1,604	2,740
Middle Atlantic.....	1,044	695	241	108	6,663	11,292
New York.....	426	299	94	33	1,879	3,754
New Jersey.....	197	143	37	17	1,008	1,810
Pennsylvania.....	421	253	110	58	3,776	5,728
East North Central.....	1,522	907	401	214	12,049	19,128
Ohio.....	487	290	136	61	3,518	5,875
Indiana.....	194	117	47	30	1,808	2,664
Illinois.....	361	219	98	44	2,381	4,105
Michigan.....	343	194	83	66	3,902	5,383
Wisconsin.....	137	87	37	13	440	1,101
West North Central.....	265	198	54	13	684	1,827
Minnesota.....	59	48	10	1	20-99	250-499
Iowa.....	61	44	11	6	378	620
Missouri.....	92	67	21	4	205	625
North Dakota.....	1	1	...	...	...	2
South Dakota.....	2	2	...	...	...	5
Nebraska.....	15	12	3	...	...	66
Kansas.....	35	24	9	2	20-99	100-249
South Atlantic.....	178	132	32	14	990	1,704
Delaware.....	9	6	2	1	20-99	100-249
Maryland.....	41	25	9	7	591	761
District of Columbia.....	3	3	...	...	...	8
Virginia.....	21	16	4	1	20-99	100-249
West Virginia.....	20	11	5	4	262	350
North Carolina.....	36	31	5	...	...	138
South Carolina.....	9	9	...	...	...	22
Georgia.....	23	18	4	1	20-99	100-249
Florida.....	16	13	3	...	...	68
East South Central.....	98	65	22	11	500-999	1,000-2,499
Kentucky.....	27	18	4	5	252	345
Tennessee.....	34	24	9	1	100-249	250-499
Alabama.....	29	17	7	5	239	366
Mississippi.....	8	6	2	...	...	39
West South Central.....	131	94	31	6	445	1,052
Arkansas.....	10	8	2	...	...	44
Louisiana.....	10	7	3	...	...	54
Oklahoma.....	38	31	7	...	...	161
Texas.....	73	48	19	6	445	793
Mountain.....	31	21	7	3	106	242
Montana.....	1	1	...	...	...	2
Idaho.....	2	2	...	...	...	5
Wyoming.....	...	...	...	...	...	...
Colorado.....	19	11	6	2	20-99	100-249
New Mexico.....	1	1	...	...	...	2
Arizona.....	5	3	1	1	20-99	20-99
Utah.....	3	3	...	...	...	8
Nevada.....	...	...	...	...	...	...
Pacific.....	306	223	68	15	500-999	1,000-2,499
Washington.....	36	29	5	2	250-499	250-499
Oregon.....	27	22	5	...	...	115
California.....	243	172	58	13	472	1,598

See footnotes at end of table.

MANUFACTURES—SUMMARY STATISTICS

Table 2.—SELECTED METALWORKING OPERATIONS, BY DIVISIONS AND STATES: 1954—Continued

Division and State	Tool and die shop operations (where separate from machine shop)					
	Establishments by number of production workers in the operation				Production workers	
	Total	1-4	5-19	20 or more	Actual number employed in operations having 20 or more workers	Estimated number employed in all operations
United States, total.....	8,178	3,251	3,283	1,644	133,864	181,386
New England.....	829	274	384	171	10,301	15,594
Maine.....	11	4	3	4	139	185
New Hampshire.....	22	7	11	4	159	308
Vermont.....	8	1	3	4	215	253
Massachusetts.....	343	121	156	66	3,634	5,809
Rhode Island.....	52	28	15	9	324	574
Connecticut.....	393	113	196	84	5,830	8,465
Middle Atlantic.....	1,832	796	725	311	21,782	32,472
New York.....	886	415	343	128	10,654	15,807
New Jersey.....	449	200	187	62	3,806	6,550
Pennsylvania.....	497	181	195	121	7,322	10,115
East North Central.....	3,699	1,230	1,555	914	74,242	95,977
Ohio.....	947	305	420	222	16,507	22,309
Indiana.....	362	107	155	100	7,191	9,319
Illinois.....	975	398	392	185	11,217	16,916
Michigan.....	1,085	294	445	346	35,404	41,479
Wisconsin.....	330	126	143	61	3,923	5,954
West North Central.....	523	272	172	79	5,000-9,999	10,000 or more
Minnesota.....	139	76	48	15	611	1,377
Iowa.....	112	54	39	19	1,161	1,764
Missouri.....	179	91	61	27	2,730	3,690
North Dakota.....	1	1	...	...	...	2
South Dakota.....	1	...	1	...	...	12
Nebraska.....	29	21	6	2	20-99	100-249
Kansas.....	62	29	17	16	3,881	4,157
South Atlantic.....	204	109	67	28	2,746	3,822
Delaware.....	11	5	3	3	128	176
Maryland.....	51	24	13	14	1,243	1,459
District of Columbia.....	3	3	...	...	...	7
Virginia.....	15	10	4	1	20-99	100-249
West Virginia.....	17	5	10	2	20-99	100-249
North Carolina.....	34	17	14	3	110	321
South Carolina.....	9	4	5	...	...	70
Georgia.....	40	24	12	4	1,148	1,352
Florida.....	24	17	6	1	20-99	100-249
East South Central.....	138	54	59	25	1,000-2,499	1,000-2,499
Kentucky.....	51	16	26	9	502	854
Tennessee.....	45	22	14	9	486	709
Alabama.....	32	13	13	6	249	438
Mississippi.....	10	3	6	1	20-99	100-249
West South Central.....	151	78	54	19	2,500-4,999	2,500-4,999
Arkansas.....	8	3	5	...	...	68
Louisiana.....	9	7	1	1	20-99	20-99
Oklahoma.....	30	19	8	3	689	832
Texas.....	104	49	40	15	2,286	2,888
Mountain.....	51	30	12	9	500-999	500-999
Montana.....	1	1	...	...	...	3
Idaho.....	4	4	...	...	...	10
Wyoming.....	1	1	...	...	...	3
Colorado.....	25	15	7	3	134	255
New Mexico.....	2	1	...	1	20-99	20-99
Arizona.....	12	3	5	4	332	399
Utah.....	6	5	...	1	20-99	20-99
Nevada.....	...	...	...	...	...	...
Pacific.....	751	408	255	88	11,557	15,637
Washington.....	31	19	9	3	363	519
Oregon.....	25	16	9	...	...	148
California.....	695	373	237	85	11,194	14,970

SELECTED METALWORKING OPERATIONS

212-23

Table 2.—SELECTED METALWORKING OPERATIONS, BY DIVISIONS AND STATES: 1954—Continued

Division and State	Pattern shop (foundry patterns only)					
	Establishments by number of production workers in the operation				Production workers	
	Total	1-4	5-19	20 or more	Actual number employed in operations having 20 or more workers	Estimated number employed in all operations
United States, total.....	2,635	1,633	774	228	10,610	23,979
New England.....	261	160	79	22	500-999	1,000-2,499
Maine.....	15	10	5	...	...	85
New Hampshire.....	15	10	5	...	...	85
Vermont.....	15	8	6	1	100-249	100-249
Massachusetts.....	114	71	31	12	410	960
Rhode Island.....	23	14	7	2	20-99	100-249
Connecticut.....	79	47	25	7	236	653
Middle Atlantic.....	635	393	183	59	2,474	5,652
New York.....	212	144	47	21	868	1,792
New Jersey.....	109	77	26	6	232	736
Pennsylvania.....	314	172	110	32	1,374	3,124
East North Central.....	925	511	302	112	5,450	10,351
Ohio.....	305	180	94	31	1,060	2,638
Indiana.....	98	52	37	9	430	1,004
Illinois.....	237	132	77	28	1,141	2,395
Michigan.....	169	81	59	29	2,042	2,952
Wisconsin.....	116	66	35	15	777	1,362
West North Central.....	188	134	47	7	260	1,159
Minnesota.....	42	32	9	1	20-99	100-249
Iowa.....	44	32	10	2	20-99	250-499
Missouri.....	57	36	20	1	20-99	250-499
North Dakota.....	1	1	...	...	...	2
South Dakota.....	...	...	...	...	...	...
Nebraska.....	10	7	2	1	20-99	20-99
Kansas.....	34	26	6	2	100-249	100-249
South Atlantic.....	157	120	31	6	216	888
Delaware.....	8	5	3	...	...	49
Maryland.....	22	11	10	1	20-99	100-249
District of Columbia.....	...	...	...	...	...	...
Virginia.....	19	13	4	2	20-99	100-249
West Virginia.....	17	14	2	1	20-99	20-99
North Carolina.....	37	36	1	...	...	102
South Carolina.....	8	5	3	...	...	49
Georgia.....	30	24	5	1	20-99	100-249
Florida.....	16	12	3	1	20-99	100-249
East South Central.....	106	70	30	6	173	708
Kentucky.....	16	11	3	2	20-99	100-249
Tennessee.....	31	25	4	2	20-99	100-249
Alabama.....	54	29	23	2	20-99	250-499
Mississippi.....	5	5	...	...	...	13
West South Central.....	101	73	24	4	...	773
Arkansas.....	4	4	...	...	...	10
Louisiana.....	11	7	4	...	...	66
Oklahoma.....	23	19	2	2	20-99	100-249
Texas.....	63	43	18	2	100-249	500-999
Mountain.....	29	22	7	...	...	139
Montana.....	4	2	2	...	...	29
Idaho.....	1	1	...	...	...	3
Wyoming.....	...	...	...	...	...	...
Colorado.....	16	12	4	...	...	78
New Mexico.....	1	1	...	...	...	2
Arizona.....	2	2	...	...	...	5
Utah.....	5	4	1	...	...	22
Nevada.....	...	...	...	...	...	...
Pacific.....	233	150	71	12	500-999	1000-2499
Washington.....	26	19	6	1	100-249	250-499
Oregon.....	16	13	3	...	...	68
California.....	191	118	62	11	657	1,696

MANUFACTURES—SUMMARY STATISTICS

Table 2.—SELECTED METALWORKING OPERATIONS, BY DIVISIONS AND STATES: 1954--Continued

Division and State	Plate or structural fabrication					
	Establishments by number of production workers in the operation				Production workers	
	Total	1-4	5-19	20 or more	Actual number employed in operations having 20 or more workers	Estimated number employed in all operations
United States, total.....	5,692	1,533	2,427	1,732	179,422	212,378
New England.....	339	94	162	83	5,000-9,999	10,000 or more
Maine.....	21	6	8	7	1,678	1,789
New Hampshire.....	7	...	4	3	182	230
Vermont.....	6	2	3	1	20-99	100-249
Massachusetts.....	206	51	106	49	3,069	4,469
Rhode Island.....	25	10	11	4	159	316
Connecticut.....	74	25	30	19	3,878	4,300
Middle Atlantic.....	1,336	378	553	405	48,529	56,110
New York.....	507	157	226	124	15,326	18,431
New Jersey.....	283	93	108	82	8,450	9,978
Pennsylvania.....	546	128	219	199	24,753	27,701
East North Central.....	1,716	467	720	529	49,548	59,356
Ohio.....	554	154	228	172	15,296	18,417
Indiana.....	168	49	71	48	4,992	5,966
Illinois.....	447	125	182	140	14,779	17,276
Michigan.....	345	88	159	98	8,640	10,768
Wisconsin.....	202	51	80	71	5,841	6,929
West North Central.....	425	125	189	111	10,818	13,398
Minnesota.....	100	32	40	28	2,385	2,945
Iowa.....	86	27	37	22	1,826	2,338
Missouri.....	137	42	62	33	2,865	3,714
North Dakota.....	4	3	...	1	20-99	20-99
South Dakota.....	6	...	4	2	20-99	100-249
Nebraska.....	28	9	15	4	422	624
Kansas.....	64	12	31	21	3,223	3,625
South Atlantic.....	355	83	149	123	10,000 or more	10,000 or more
Delaware.....	10	1	6	3	342	416
Maryland.....	61	12	23	26	2,278	2,584
District of Columbia.....	5	1	2	2	20-99	100-249
Virginia.....	53	12	14	27	5,839	6,037
West Virginia.....	28	8	12	8	770	934
North Carolina.....	54	17	22	15	924	1,230
South Carolina.....	22	5	11	6	270	415
Georgia.....	61	11	28	22	1,764	2,128
Florida.....	61	16	31	14	889	1,301
East South Central.....	185	33	67	85	14,092	14,979
Kentucky.....	45	10	17	18	1,856	2,085
Tennessee.....	52	10	20	22	2,793	3,058
Alabama.....	58	7	16	35	4,003	4,213
Mississippi.....	30	6	14	10	5,440	5,623
West South Central.....	428	104	171	153	13,121	15,433
Arkansas.....	11	2	5	4	190	255
Louisiana.....	61	9	28	24	2,480	2,838
Oklahoma.....	85	28	30	27	3,270	3,700
Texas.....	271	65	108	98	7,181	8,640
Mountain.....	105	25	44	36	2,833	3,423
Montana.....	6	3	2	1	20-99	20-99
Idaho.....	15	3	10	2	100-249	250-499
Wyoming.....	2	...	2	...	...	24
Colorado.....	47	14	15	18	1,014	1,229
New Mexico.....	6	...	4	2	20-99	100-249
Arizona.....	7	...	2	5	1,061	1,085
Utah.....	21	5	9	7	508	629
Nevada.....	1	...	...	1	20-99	20-99
Pacific.....	803	224	372	207	18,286	23,310
Washington.....	119	33	62	24	2,657	3,484
Oregon.....	78	16	43	19	1,847	2,403
California.....	606	175	267	164	13,782	17,423

See footnotes at end of table.

SELECTED METALWORKING OPERATIONS

212-25

Table 2.—SELECTED METALWORKING OPERATIONS, BY DIVISIONS AND STATES: 1954—Continued

Division and State	Stamping, blanking, forming or drawing					
	Establishments by number of production workers in the operation				Production workers	
	Total	1-4	5-19	20 or more	Actual number employed in operations having 20 or more workers	Estimated number employed in all operations
United States, total.....	9,958	3,451	4,041	2,466	245,693	302,811
New England.....	893	323	378	192	10,000 or more	10,000 or more
Maine.....	9	4	4	1	20-99	100-249
New Hampshire.....	31	13	14	4	193	393
Vermont.....	11	3	7	1	20-99	100-249
Massachusetts.....	389	142	166	81	4,666	7,013
Rhode Island.....	68	27	28	13	674	1,078
Connecticut.....	385	134	159	92	9,528	11,771
Middle Atlantic.....	2,413	867	1,006	540	50,903	65,142
New York.....	1,170	432	502	236	18,097	25,201
New Jersey.....	525	209	205	111	13,769	16,751
Pennsylvania.....	718	226	299	193	19,037	23,190
East North Central.....	3,793	1,143	1,475	1,175	133,126	153,683
Ohio.....	1,005	298	363	344	41,109	46,210
Indiana.....	368	102	142	124	12,413	14,372
Illinois.....	1,217	392	502	323	26,251	33,255
Michigan.....	829	223	318	288	51,137	55,510
Wisconsin.....	374	128	150	96	2,216	4,336
West North Central.....	750	284	298	168	14,430	18,716
Minnesota.....	205	71	91	43	2,745	4,015
Iowa.....	151	58	58	35	3,446	4,287
Missouri.....	261	95	101	65	6,020	7,469
North Dakota.....	5	3	2	...	...	31
South Dakota.....	6	2	4	...	...	53
Nebraska.....	46	20	18	8	406	672
Kansas.....	76	35	24	17	1,813	2,189
South Atlantic.....	386	133	167	86	5,000-9,999	5,000-9,999
Delaware.....	10	3	4	3	117	172
Maryland.....	79	16	35	28	2,930	3,390
District of Columbia.....	6	4	2	...	...	34
Virginia.....	37	16	16	5	144	376
West Virginia.....	35	5	12	18	1,759	1,915
North Carolina.....	67	27	32	8	344	796
South Carolina.....	22	10	10	2	20-99	100-249
Georgia.....	61	20	27	14	851	1,225
Florida.....	69	32	29	8	670	1,098
East South Central.....	253	72	111	70	5,847	7,359
Kentucky.....	82	24	28	30	2,251	2,647
Tennessee.....	87	22	39	26	2,282	2,805
Alabama.....	60	18	32	10	857	1,286
Mississippi.....	24	8	12	4	457	621
West South Central.....	301	123	140	38	2,569	4,557
Arkansas.....	21	8	12	1	20-99	100-249
Louisiana.....	30	7	19	4	261	507
Oklahoma.....	50	29	19	2	100-249	250-499
Texas.....	200	79	90	31	2,138	3,416
Mountain.....	87	39	34	14	1,000-2,499	1,000-2,499
Montana.....	3	1	2	...	...	26
Idaho.....	5	1	4	...	...	50
Wyoming.....	1	...	1	...	...	12
Colorado.....	46	24	17	5	136	400
New Mexico.....	1	1	...	...	...	2
Arizona.....	17	5	5	7	1,174	1,247
Utah.....	14	7	5	2	20-99	100-249
Nevada.....	...	...	...	...	...	...
Pacific.....	1,082	467	432	183	15,480	21,832
Washington.....	79	37	32	10	1,729	2,206
Oregon.....	49	17	27	5	324	691
California.....	954	413	373	168	13,427	18,935

See footnotes at end of table.

MANUFACTURES—SUMMARY STATISTICS

Table 2.—SELECTED METALWORKING OPERATIONS, BY DIVISIONS AND STATES: 1954—Continued

Division and State	Automatic screw machine department					
	Establishments by number of production workers in the operation				Production workers	
	Total	1-4	5-19	20 or more	Actual number employed in operations having 20 or more workers	Estimated number employed in all operations
United States, total.....	3,277	1,464	1,277	536	32,385	51,369
New England.....	468	188	199	81	2,500-4,999	5,000-9,999
Maine.....	4	3	...	1	20-99	20-99
New Hampshire.....	19	10	8	1	20-99	100-249
Vermont.....	11	5	6	...	...	85
Massachusetts.....	177	78	69	30	1,583	2,606
Rhode Island.....	32	11	17	4	236	468
Connecticut.....	225	81	99	45	2,480	3,870
Middle Atlantic.....	741	342	268	131	7,807	11,878
New York.....	351	159	126	66	4,047	5,957
New Jersey.....	180	81	68	31	1,932	2,950
Pennsylvania.....	210	102	74	34	1,828	2,971
East North Central.....	1,437	588	580	269	15,551	23,981
Ohio.....	391	170	150	71	4,496	6,721
Indiana.....	134	43	56	35	2,098	2,878
Illinois.....	411	170	183	58	2,653	5,274
Michigan.....	369	142	144	83	5,421	7,504
Wisconsin.....	132	63	47	22	883	1,604
West North Central.....	197	98	79	20	1,000-2,499	1,000-2,499
Minnesota.....	50	27	20	3	169	477
Iowa.....	38	20	14	4	148	366
Missouri.....	81	39	31	11	821	1,291
North Dakota.....	...	...	...	...	...	...
South Dakota.....	1	1	...	...	...	2
Nebraska.....	9	3	4	2	20-99	100-249
Kansas.....	18	8	10	...	...	140
South Atlantic.....	75	48	21	6	1,000-2,499	1,000-2,499
Delaware.....	3	2	1	...	...	17
Maryland.....	18	8	6	4	1,082	1,174
District of Columbia.....	...	...	...	...	...	...
Virginia.....	9	6	2	1	20-99	20-99
West Virginia.....	4	1	2	1	20-99	20-99
North Carolina.....	18	15	3	...	...	73
South Carolina.....	5	3	2	...	...	32
Georgia.....	13	10	3	...	...	61
Florida.....	5	3	2	...	...	32
East South Central.....	42	25	14	3	390	621
Kentucky.....	17	11	3	3	390	454
Tennessee.....	12	6	6	...	...	87
Alabama.....	10	6	4	...	...	63
Mississippi.....	3	2	1	...	...	17
West South Central.....	58	36	19	3	79	397
Arkansas.....	1	1	...	...	...	2
Louisiana.....	3	1	2	...	...	27
Oklahoma.....	16	14	2	...	...	59
Texas.....	38	20	15	3	79	309
Mountain.....	19	9	7	3	103	209
Montana.....	1	1	...	...	...	3
Idaho.....	...	...	...	...	...	...
Wyoming.....	...	...	...	...	...	...
Colorado.....	12	6	5	1	20-99	100-249
New Mexico.....	1	...	...	1	20-99	20-99
Arizona.....	4	1	2	1	20-99	20-99
Utah.....	1	1	...	...	...	2
Nevada.....	...	...	...	...	...	...
Pacific.....	240	130	90	20	1,664	3,069
Washington.....	12	7	5	...	...	78
Oregon.....	8	5	3	...	...	48
California.....	220	118	82	20	1,664	2,943

See Footnotes at end of table.

Table 2.—SELECTED METALWORKING OPERATIONS, BY DIVISIONS AND STATES: 1954—Continued

Division and State	Machine shop operations						Coverage of metalworking operations ⁴	
	Establishments by number of production workers in the operation				Production workers		Percent of total establishments reporting metal working operations	Percent of total employment accounted for by establishments reporting metalworking operations
	Total	1-4	5-19	20 or more	Actual number employed in operations having 20 or more workers	Estimated number employed in all operations		
United States, total...	17,270	4,868	7,377	5,025	598,676	699,370	58	97
New England.....	1,643	399	724	520	67,059	76,745	58	97
Maine.....	53	19	21	13	2,308	2,607	53	98
New Hampshire.....	69	19	33	17	2,152	2,596	54	99
Vermont.....	34	6	16	12	2,773	2,980	68	96
Massachusetts.....	763	197	343	223	25,328	29,937	58	96
Rhode Island.....	117	28	47	42	4,982	5,616	47	91
Connecticut.....	607	130	264	213	29,516	33,009	60	98
Middle Atlantic.....	4,232	1,190	1,837	1,205	139,562	164,581	59	97
New York.....	1,870	589	822	459	58,786	70,123	56	96
New Jersey.....	952	277	417	258	24,889	30,585	55	98
Pennsylvania.....	1,410	324	598	488	55,887	63,873	67	98
East North Central.....	6,090	1,548	2,506	2,036	278,092	312,034	62	97
Ohio.....	1,839	458	757	624	78,873	89,102	67	98
Indiana.....	599	154	238	207	35,137	38,378	60	96
Illinois.....	1,670	457	710	503	54,475	64,138	62	98
Michigan.....	1,357	316	565	476	83,049	90,619	58	98
Wisconsin.....	625	163	236	226	26,558	29,797	62	95
West North Central.....	1,100	382	432	286	29,007	35,146	59	96
Minnesota.....	302	99	123	80	6,944	8,667	58	91
Iowa.....	202	69	74	59	8,163	9,223	58	97
Missouri.....	369	136	136	97	9,313	11,285	62	99
North Dakota.....	11	4	5	2	20-99	100-249	46	85
South Dakota.....	8	4	2	2	100-249	100-249	49	90
Nebraska.....	63	23	27	13	762	1,144	56	84
Kansas.....	145	47	65	33	3,638	4,536	58	98
South Atlantic.....	737	245	315	177	17,091	21,484	51	96
Delaware.....	29	12	7	10	1,111	1,225	66	99
Maryland.....	151	37	56	58	6,952	7,717	49	97
District of Columbia.....	7	2	5	...	...	65	43	85
Virginia.....	93	28	43	22	2,022	2,608	62	98
West Virginia.....	72	19	32	21	1,486	1,918	61	99
North Carolina.....	133	42	60	31	2,435	3,260	57	99
South Carolina.....	33	10	17	6	576	805	54	94
Georgia.....	104	30	55	19	1,942	2,677	52	97
Florida.....	115	65	40	10	567	1,209	39	80
East South Central.....	377	109	160	108	9,241	11,433	61	96
Kentucky.....	111	31	47	33	3,244	3,885	68	99
Tennessee.....	116	35	44	37	3,296	3,912	58	98
Alabama.....	120	31	56	33	2,478	3,227	62	94
Mississippi.....	30	12	13	5	223	409	55	94
West South Central.....	731	231	335	165	13,701	18,298	54	96
Arkansas.....	29	17	9	3	135	285	51	99
Louisiana.....	81	25	37	19	957	1,463	44	95
Oklahoma.....	171	50	80	41	2,404	3,489	58	97
Texas.....	450	139	209	102	10,205	13,061	55	95
Mountain.....	167	66	68	33	2,675	3,656	47	85
Montana.....	11	7	2	2	20-99	100-249	41	77
Idaho.....	13	8	5	...	...	80	54	89
Wyoming.....	3	1	2	...	...	26	28	53
Colorado.....	89	30	40	19	1,323	1,878	53	93
New Mexico.....	9	6	1	2	100-249	100-249	29	44
Arizona.....	21	4	12	5	619	773	44	75
Utah.....	20	9	6	5	549	644	43	86
Nevada.....	1	1	...	...	...	2	50	98
Pacific.....	2,193	698	1,000	495	42,248	55,993	51	96
Washington.....	167	68	64	35	3,519	4,457	51	98
Oregon.....	116	46	49	21	1,567	2,270	47	93
California.....	1,910	584	887	439	37,162	49,266	52	95

Note: The nature of the operations performed by establishments classified in the foundry, forging, polishing and plating, and galvanizing industries indicates the establishments classified in these industries are engaged in the comparable metalworking operations. For this reason, the metalworking inquiry was abbreviated or was not included on the reporting forms. The number of establishments and production workers in these industries are shown by State in separate columns in the above table. Data are not available on the distribution of these establishments by number of production workers engaged in metalworking operations. However, distributions based on the total employment of establishments in each of these industries may be obtained by reference to Chapter III of the Summary Volume (Volume I) or by reference to the specific industry in the Industry Volume (Volume II).

¹The metalworking inquiry for the foundry industries was abbreviated and did not include the foundry (except die casting) or die casting portions of the inquiry. These columns show the total number of establishments and production workers classified in the four foundry industries in each State. The establishments in these industries may be engaged in foundry operations other than die casting, die casting operations, or both.

²Separate data are not available on the total operations of commercial forge shops, inasmuch as establishments primarily engaged in nonferrous forging operations are classified in Industry 3399, Primary Metal Industries, N.E.C., with manufacturers of other miscellaneous primary metal products.

³The data shown are for all establishments in the Plating and Polishing Industry. Most of the establishments in this industry perform electroplating operations.

⁴The coverage ratios show the relationship of the total number of establishments and employees for plants which reported one or more of the selected metalworking operations to all establishments and employees in the same State or division. In each instance the employment ratio is related to the total employment of plants answering the metalworking inquiry rather than the number of production workers engaged in metalworking operations.

SPECIAL REPORT

**MANUFACTURING ACTIVITY IN
GOVERNMENT ESTABLISHMENTS**

SR - 1

Manufacturing Activity in Government Establishments

This special report presents data for manufacturing activities of selected government establishments in continental United States. These data are not included in other 1954 Census of Manufactures reports, which cover privately operated establishments only. Manufacturing establishments owned by the Federal government and operated by private companies either for the government or for their own account are included with privately operated establishments. Three types of establishments are covered in this report: (1) manufacturing facilities owned and operated by the Department of Defense; (2) manufacturing facilities owned and operated by other United States Government agencies, and (3) prison industries (Federal, District of Columbia and State). The data were prepared with the cooperation of the Department of Defense, the Department of Justice, the Department of Interior and the District of Columbia and State prison systems.

Manufacturing Facilities Owned by the United States Government and Operated by the Department of Defense

Data are shown in Tables 1 to 3 for manufacturing facilities owned by the United States Government and operated by the Department of Defense. Although these establishments may also be engaged in nonmanufacturing activities at the same location, the statistics represent only their activities relating to manufacturing.

This report covers all manufacturing installations operated by the Department of Defense which produce goods or perform manufacturing services for the general supply system of the Department of Defense. It does not include activities of Defense Department installations which serve primarily or exclusively their own installations (e.g., bakeries, some machine shops and box plants).

Statistics are shown in these tables for employment, man-hours, payrolls, value added by manufacture, and value of shipments. Value of shipments reflects all of the direct costs incurred by the establishments in manufacturing operations such as labor, raw materials, components, parts, supplies, overhead, etc. For shipyards, value of shipments represents the value of new construction and repair work performed during the year whether or not the vessels were completed by the end of 1954. Generally, individual product statistics are shown only for those items with a civilian counterpart. Furthermore, product detail on ordnance and related items is withheld for security reasons on advice of the Bureau of the Budget.

Value added by manufacture represents the total value of shipments (including the value of manufacturing services) less the cost of materials, parts, supplies, etc., actually consumed or

put into production during the year, whether purchased during 1954, withdrawn from inventories, or received from other Government agencies. For a few establishments, value added by manufacture was partly estimated by the Bureau of the Census after consultation with the Department of Defense, on the basis of related data reported by the establishment.

Military personnel are not included in any of the employment, payroll or man-hours data. These data represent only nonmilitary (wage board and graded) employees engaged in the manufacturing activities at the plant.

Manufacturing Facilities Owned and Operated by Other United States Government Agencies

Manufacturing operations of the Bureau of Mines, U. S. Department of Interior, are not included in Tables 1 to 3. That Agency is the sole producer of helium in the United States. During 1954, it operated 4 plants from which 190 million cubic feet of helium valued at \$3,202 thousand were shipped. The value added by manufacture for these plants was \$2,838 thousand. The average number of employees totaled 358, of which 275 were production and related workers, and the total wages and salaries paid amounted to \$1,583 thousand. The Bureau of Mines also operated a titanium pilot plant during part of 1954 which produced 290 thousand pounds of titanium sponge and employed 64 persons. Additional detail for production, shipments, consumption, prices, reserves and activities relating to conservation and technology appear in the Minerals Yearbook, a publication of the Bureau of Mines.

Excluded from this report are the manufacturing activities of the Government Printing Office and the Tennessee Valley Authority. The operations of these agencies are covered in their Annual Reports. Also excluded are the minor manufacturing activities of such other Government agencies as the Post Office Department and the General Services Administration. The manufacturing activities of these latter agencies have no counterparts in private industry.

Prison Industries (Federal, District of Columbia, and State)

During 1954 manufactured products valued at \$69,184 thousand were produced in Federal, District of Columbia, and State prisons in the United States. It is estimated that about 10 percent of this total was sold on the open market, the remainder representing products used by Federal or local government agencies, including the prison systems. These data, shown in detail in Table 4, cover the activities of the Federal Prison Industries, Inc., as well as those of the prison industries of each State and the District of Columbia.

MANUFACTURING ACTIVITY IN GOVERNMENT ESTABLISHMENTS

SR-3

Table 1.--EMPLOYMENT, PAYROLLS, MAN-HOURS, AND VALUE ADDED BY MANUFACTURE FOR MANUFACTURING FACILITIES OPERATED BY THE DEPARTMENT OF DEFENSE, BY STATES: 1954¹

Geographic division and State	All employees (wage board and graded)		Production workers (wage board)			Value added by manufacture (\$1,000)
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	
UNITED STATES, TOTAL.....	172,884	752,798	138,532	249,545	603,394	919,772
New England.....	26,283	112,480	21,386	38,209	91,182	126,766
New Hampshire.....	7,907	33,542	6,264	11,584	26,503	35,415
Massachusetts.....	18,376	78,938	15,122	26,625	64,679	91,351
Middle Atlantic.....	42,154	188,539	33,318	60,146	150,547	225,618
New York.....	19,396	92,515	15,454	28,564	75,542	112,641
New Jersey.....	3,839	14,526	2,902	4,980	10,551	16,036
Pennsylvania.....	18,919	81,498	14,962	26,602	64,454	96,941
East North Central.....	12,642	52,572	9,618	20,097	39,491	71,462
Ohio.....	33	164	33	68	164	400
Indiana.....	3,863	16,778	2,772	4,960	11,189	23,967
Illinois.....	8,746	35,630	6,813	15,069	28,138	47,095
West North Central.....	2,653	9,387	2,296	4,171	8,017	11,700
Nebraska.....	2,653	9,387	2,296	4,171	8,017	11,700
South Atlantic.....	33,972	144,414	27,146	47,177	113,168	171,487
Maryland.....	3,366	13,165	2,858	5,195	10,999	14,929
District of Columbia.....	8,732	39,239	5,797	9,968	25,657	52,500
Virginia.....	13,474	58,582	11,168	19,784	48,858	63,310
South Carolina.....	6,344	26,391	5,425	9,564	21,245	31,500
Georgia.....	2,056	7,037	1,898	2,666	6,409	9,248
East South Central.....	2,537	11,403	1,834	3,592	8,368	15,250
Kentucky.....	1,474	6,616	1,220	2,117	5,626	8,850
Alabama.....	1,063	4,787	614	1,475	2,742	6,400
West South Central.....	5,874	21,546	4,777	9,510	16,815	30,523
Arkansas.....	2,963	11,162	2,120	4,248	7,384	14,750
Oklahoma.....	2,911	10,384	2,657	5,262	9,431	15,773
Mountain.....	2,747	11,931	1,938	4,103	8,161	15,910
Idaho.....	401	1,583	361	812	1,424	2,100
Colorado.....	2,051	9,149	1,337	2,809	5,789	12,210
Nevada.....	295	1,199	240	482	948	1,600
Pacific.....	44,022	200,526	36,219	62,540	167,645	251,056
Washington.....	14,616	66,227	12,188	21,358	55,926	79,571
California.....	29,406	134,299	24,031	41,182	111,719	171,485

Table 2.--EMPLOYMENT, PAYROLLS, MAN-HOURS, AND VALUE ADDED BY MANUFACTURE FOR MANUFACTURING FACILITIES OPERATED BY THE DEPARTMENT OF DEFENSE, BY PRINCIPAL TYPE OF MANUFACTURING ACTIVITY: 1954

Ind. code	Major activity	All employees (wage board and graded)		Production workers (wage board)			Value added by manufacture (\$1,000)
		Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	
	All manufacturing facilities, total ¹	172,884	752,798	138,532	249,545	603,394	919,772
2099	Coffee roasting.....	91	383	88	154	364	458
2298	Cordage and twine.....	75	263	73	107	256	452
2310	Men's suits, coats, and other clothing.....	2,429	7,671	2,179	3,716	6,350	9,385
2320							
2393							
2394	Canvas and other fabricated textile products..	330	1,516	285	668	918	1,940
2399							
2826							
2851	Explosives.....	3,044	11,787	2,580	4,458	9,818	13,319
	Paints, varnishes, lacquers, japans, and enamels.....	104	470	103	178	465	842
3391	Iron and steel forgings.....	10	48	10	20	48	114
3471	Lighting fixtures.....	163	663	163	303	663	900
3731	Ship and boat building and repairing.....	109,754	496,031	89,577	156,489	408,631	579,947
3732							
1900	Ordnance.....	56,884	233,966	43,474	83,452	175,881	312,415

¹Excludes data for foundries which are part of nonmanufacturing establishments.

MANUFACTURING ACTIVITY IN GOVERNMENT ESTABLISHMENTS

Table 3.--QUANTITY AND VALUE OF PRODUCT SHIPMENTS BY MANUFACTURING FACILITIES OPERATED BY THE DEPARTMENT OF DEFENSE: 1954

Product code	Product	Unit of quantity	Total shipments including interplant transfers	
			Quantity	Value f.o.b. plant (\$1,000)
2099515	Roasted coffee, ground.....	Thousand pounds	55,566	53,086
	Abaca rope and cable:			
2298111	3/4 inch in diameter and larger.....	....do.....	3,954	1,118
2298115	Less than 3/4 inch in diameter.....	....do.....	1,039	298
2298221	Agave rope and cable 3/4 inch in diameter and larger.....	....do.....	12	8
	Men's military uniform apparel:			
231117-	Uniform suits.....	Number.....	170,570	2,961
2311271	Overcoats.....	....do.....	21,617	283
2311371	Jackets.....	....do.....	318,218	4,735
2321151	Shirts.....	Dozen.....	93,400	3,492
2327061	Trousers.....	....do.....	80,600	4,084
	Men's work clothing:			
2329111	Pants.....	Pair.....	268,283	735
2329251	Jackets.....	Number.....	532,774	1,598
2329398	Men's armored clothing, caps, liners, and miscellaneous items.....		xxx	3,214
2394031	Canvas tents.....		xxx	1,342
2390000	Other fabricated textile products, such as canvas products, bags, etc.....		xxx	3,188
2826000	Explosives.....		xxx	25,693
	Paints, marine:			
2851217	Ship bottom.....	Thousand gallons	628	1,406
2851219	Other.....	....do.....	3,244	5,860
3321000	Gray iron castings ¹		xxx	572
3391000	Iron and steel forgings.....		xxx	209
3471000	Lighting fixtures.....		xxx	1,282
3731000	Shipbuilding and repair.....		xxx	780,042
3732000	Boatbuilding and repair.....		xxx	11,386
3799000	Other transportation equipment.....		xxx	5,323
3831000	Optical instruments and lenses.....		xxx	4,572

xxx Not applicable.

¹Excludes castings produced and consumed at the same facility.

Table 4.--QUANTITY AND VALUE OF SHIPMENTS OF PRODUCTS MANUFACTURED AT FEDERAL, DISTRICT OF COLUMBIA, AND STATE PRISONS: 1954

Product code	Product	Unit of quantity	Quantity	Value f.o.b. plant (\$1,000)
	Total.....		xxx	69,184
2010000	Meat and meat products.....		xxx	1,389
2030000	Canned foods.....		xxx	3,689
2041000	Flour.....		xxx	304
2042000	Prepared animal feeds.....		xxx	380
2099000	Coffee and tea.....		xxx	1,261
2131000	Tobacco, chewing and smoking.....		xxx	800
2224200	Yarns.....	Thousand pounds	1,704	836
2213200	} Blankets.....		xxx	1,419
2233600				
2233000	Woven fabrics.....	Thousand pounds	10,849	7,864
2250000	Knit goods.....		xxx	861
2298000	Cordage and twine.....	Thousand pounds	16,328	3,038
2299100	Linen goods (flax).....		xxx	121
2311000	} Apparel.....		xxx	9,547
2329000				
2392000	Sheets and pillow cases.....		xxx	773
2394000	Canvas specialties.....		xxx	922
2399000	Miscellaneous textile products.....		xxx	121
2421100	Lumber.....		xxx	152
2515100	Mattresses.....		xxx	1,736
2531000	Wooden furniture.....		xxx	4,544
2532000	Hospital beds.....		xxx	225
2699000	Paper products.....		xxx	293
2751000	} Printing and binding.....		xxx	1,263
2761000				
2781000				
2841000	Soaps.....		xxx	1,174
2851000	Paints.....		xxx	1,527
3141000	Shoes.....	Thousand pairs.	1,173	5,746
3251000	Brick.....		xxx	954
3271000	Concrete products.....		xxx	248
3321000	} Iron castings.....		xxx	456
3322000				
3463198	License plates.....	Thousands.....	81,378	7,932
3522000	Farm equipment.....		xxx	643
3599000	Miscellaneous metal products.....		xxx	3,265
3981000	Brooms and brushes.....		xxx	2,741
3993000	Highway and road signs.....	Thousands.....	1,204	2,532
9000000	Miscellaneous products.....		xxx	428

Note: Excludes agricultural products, road building, and other nonmanufacturing activities.

xxx Not applicable.

Appendix A

Industry Descriptions

This appendix presents, in tabular form, descriptions of industries for which data are published in the 1954 Census of Manufactures reports and a comparison of their 1954 and 1947 specialization and coverage ratios. These ratios are computed from data shown in Tables 5A and 5B of Volume II, Industry Statistics.

The scope and content of the 1954 Census conform to the Standard Industrial Classification (S.I.C.) Manual, 1945 edition, as amended by the Bureau of the Budget prior to the 1954 Census. The industry descriptions shown in this appendix follow the S.I.C. manual, as amended, but contain more extensive references to products classified in the industry and additional cross references to similar or related products classified in other industries. Industry titles used are Census "short" titles; if different from the S.I.C., the full S.I.C. title is shown in a parenthesis following the Census short title. S.I.C. industries which have been rearranged or combined in the 1954 Census are listed by the Census code classification; the equivalent S.I.C. industry is also included as part of the full industry title. Changes in scope and content of manufacturing industries from 1947 are described in Appendix B, "Comparisons of 1954 and 1947 Census Industry Classifications," as well as in the text preceding each of the industry reports of Volume II, Industry Statistics.

Establishments are classified in industries on the basis of their principal activity, usually measured in terms of dollar value of products shipped (see Introduction, Industry Classification of Establishments). While many establishments produce only products primary to the industry, most industries include some establishments which also produce secondary products (products classified as primary to other industries). The primary product specialization ratio describes the proportion of primary products shipped by the industry to total product shipments (both primary and secondary) by the industry. Miscellaneous receipts (receipts for contract work, sale of scrap, etc.) are excluded from this computation.

The coverage ratio is the proportion of primary products shipped by the industry to total shipments of these products by all manufacturing industries. Because of the diversity of manufactures, relatively few industries account for 100 percent of the manufacture of their primary products. Furthermore, an industry's coverage ratio may be reduced by the system of industry classification which distinguishes, for some industries, between different processes in the manufacture of the same product. For such industries, the coverage ratio would be significantly different if the computations were confined to shipments of the products made by similar production processes rather than by all processes. For example, although Industry 2931, Beehive Coke Ovens, accounted for only 1 percent of the coke shipped by all manufacturing plants, this output represented 100 percent of the coke made in beehive ovens.

Ratios are not computed for 4-digit industries in which receipts are predominantly from services rendered rather than for products shipped, since the value of such services performed for others on either a contract or commission basis was not reported separately by type of service. Nor are ratios computed for industries having significant duplication between establishments in the industry due to the consumption of certain products of the industry as materials by other establishments in the same industry. Ratios are shown, however, wherever such duplication could be approximated and eliminated from the computations.

Industries are grouped by specialization and coverage ratio in the following two summary tables. A distribution of industries by 1954 ratio group is shown in table 1; and in table 2, identical industries are grouped by 1954 ratio group and by 1947 ratio group and 1954 employment is shown for both the 1947 and 1954 ratio group. With relatively few exceptions, changes in ratio for individual industries between the two years have been relatively minor. In 1954, as in 1947, approximately 95 percent of manufacturing employment is included in industries with specialization of 80 percent or higher.

Table 1

Ratio group	Primary product specialization ratio: 1954			Coverage ratio: 1954		
	Industries, number	Employees		Industries, number	Employees	
		Number (1,000)	Percent of total		Number (1,000)	Percent of total
Total ¹	2431	14,175	100	3431	14,156	100
100 percent.....	14	258	2	21	845	6
90 to 99 percent.....	221	8,112	57	188	6,134	43
80 to 89 percent.....	163	5,150	36	119	4,865	35
70 to 79 percent.....	26	592	4	48	1,115	8
60 to 69 percent.....	6	60	1	27	709	5
Under 60 percent.....	1	3	(4)	28	488	3

¹Major industry group 19 is computed as a single industry; Industries 2026 and 2027 are also combined as a single industry.

²Excludes 16 industries having 1,477 thousand employees.

³Excludes 16 industries having 1,496 thousand employees.

⁴Less than 0.5 percent.

Table 2

Ratio group	Distribution by 1954 ratio			Distribution by 1947 ratio		
	Industries, number	Employees, 1954		Industries, number	Employees, 1954	
		Number (1,000)	Percent of total		Number (1,000)	Percent of total
	Primary product specialization ratio					
Total.....	¹ 394	11,210	100	¹ 394	11,210	100
100 percent.....	13	237	2	23	370	3
90 to 99 percent.....	203	6,415	57	212	6,572	59
80 to 89 percent.....	149	4,037	36	125	3,739	33
70 to 79 percent.....	23	490	5	30	494	5
60 to 69 percent.....	5	28	(³)	4	35	(³)
Under 60 percent.....	1	3	(³)	...	...	...
	Coverage ratio					
Total.....	² 395	11,159	100	² 395	11,159	100
100 percent.....	19	702	6	26	896	8
90 to 99 percent.....	176	5,275	47	176	5,313	48
80 to 89 percent.....	110	3,342	30	108	3,361	30
70 to 79 percent.....	44	942	9	44	934	8
60 to 69 percent.....	21	541	5	15	194	2
Under 60 percent.....	25	357	3	26	461	4

¹Excludes 53 industries having 4,442 thousand employees.

²Excludes 52 industries having 4,493 thousand employees.

³Less than 0.5 percent.

Industry group (3-digit) specialization and coverage ratios are shown for the first time in reports of the 1954 Census of Manufactures. Comparable ratios are shown for 1947 only where the 4-digit industry and the 3-digit industry group are substantially identical. Industry group ratios are based on shipments of all products which are primary to any of the 4-digit industries included in the industry group. These ratios provide a measure of overlapping production with industries in other 3-digit groups. However, it should be noted that industry group ratios are derived from figures which may include duplication arising from the

transfer of products between 4-digit industries in the group as well as within certain 4-digit industries.

The following abbreviations are used:

NA Not available
 (D) Withheld to avoid disclosing data for individual companies
 S.I.C. Standard Industrial Classification
 n.e.c. Not elsewhere classified

Code	Industry title and description	1954			1947		
		All employ- ees ¹ (1,000)	Industry ratio (percent)		All employ- ees ¹ (1,000)	Industry ratio (percent)	
			Spe- cial- iza- tion ²	Cov- er- age ³		Spe- cial- iza- tion ²	Cov- er- age ³
20	FOOD AND KINDRED PRODUCTS						
	This major group includes establishments manufacturing foods and beverages for human consumption and certain related products, such as manufactured ice, chewing gum, and prepared feeds for animals and fowls. Establishments which are primarily engaged in processing and distributing fluid milk and cream are also included. Establishments primarily engaged in extracting animal and vegetable oils are classified in Major Group 28, Chemicals and Products and establishments producing meat, poultry, dairy, bakery, and confectionery products for sale chiefly at retail on the manufacturing premises are classified in Trade Industries.						
201	Meat products.....	311.4	97	99	274.5	(NA)	(NA)
2011	Meat Packing Plants (Meat Packing, Wholesale)..... Establishments primarily engaged in the slaughtering (for their own account, or on a contract basis for the trade) of cattle, hogs, sheep, lambs, calves, and other animals, except small game, for meat to be sold fresh or to be used on the same premises in canning and curing, and in making sausage, lard, and other products. Important products of this industry include fresh and frozen meat (beef, veal, mutton, lamb, and pork), canned beef, pork and other meat goods, sausage and lard. Establishments primarily engaged in manufacturing sausages and meat specialties are classified in Industry 2011 if the raw materials are primarily obtained from animals slaughtered in the establishment; in Industry 2013, Prepared Meats, if the raw materials are primarily purchased meats. Establishments primarily engaged in killing, dressing and packing poultry, rabbits and other small game are included in Industry 2015, Poultry Dressing; canning poultry in Industry 2033, Canning and Preserving, and the manufacture of dog and cat food in Industry 2042, Prepared Animal Feeds.	220.2	98	87	208.4	(⁴)	(⁴)
2013	Prepared Meats (Includes S.I.C. Industry 2013, Sausages and Other Prepared Meat Products and Industry 2014, Sausage Casings)..... Establishments primarily engaged in manufacturing sausages, prepared meats, meat specialties, and sausage casings but which are not primarily engaged in slaughtering livestock. Sausage or meat kitchens operated by packing houses as separate establishments are also included in this industry. Establishments primarily engaged in killing, dressing, and packing poultry, rabbits and other small game are classified in Industry 2015, Poultry Dressing Plants; and canning poultry in Industry 2033, Canning and Preserving, Except Fish.	45.0	83	⁵ 28	44.5	(⁴)	(⁴)
2015	Poultry Dressing Plants (Poultry and Small Game Dressing and Packing, Wholesale)..... Establishments primarily engaged in killing, dressing, and packing poultry, rabbits, and other small game for their own account or on a contract basis. This industry also includes separate plants cutting-up and quick-freezing poultry or small game for the trade or for other plants of the company.	146.2	96	97	21.6	88	88
202	Dairy products.....	283.4	99	99	(NA)	(NA)	(NA)
2021	Creamery Butter..... Establishments primarily engaged in manufacturing creamery butter. Establishments primarily engaged in manufacturing processed and ladle butter are classified in Industry 2025, Special Dairy Products.	21.0	74	77	27.1	79	84
2022	Natural Cheese..... Establishments primarily engaged in manufacturing all types of natural cheese and which may produce processed cheese in the same establishment. Establishments primarily engaged in manufacturing processed cheese from purchased natural cheese are classified in Industry 2025, Special Dairy Products.	13.9	83	74	12.8	84	83

See footnotes at end of table.

Code	Industry title and description	1954			1947		
		All employees ¹ (1,000)	Industry ratio (percent)		All employees ¹ (1,000)	Industry ratio (percent)	
			Specialization ²	Coverage ³		Specialization ²	Coverage ³
20	FOOD AND KINDRED PRODUCTS—Continued						
202	Dairy products—Continued						
2023	<u>Concentrated Milks</u> (Condensed and Evaporated Milk).....	13.3	82	68	18.3	84	77
	Establishments primarily engaged in manufacturing condensed and evaporated milk, and related products such as sweetened condensed milk (case and bulk goods); unsweetened condensed and evaporated milk; condensed and evaporated buttermilk; dried and powdered skim milk; whole milk, whey, and buttermilk; and ice-cream mix and ice-milk mix made for sale as such.						
2024	<u>Ice Cream and Ices</u>	36.5	93	70	46.7	90	87
	Establishments primarily engaged in manufacturing ice cream, ice cream cake, ices, and other frozen desserts.						
2025	<u>Special Dairy Products</u>	7.3	90	56	7.5	91	(NA)
	Establishments primarily engaged in manufacturing special dairy products. Important products of this industry include processed and ladle butter, malted milk, and fermented milk; processed cheese, cheese pastes, and spreads made from purchased natural cheese; instant whip (vegetable oil base), sour cream, and yogurt. Establishments primarily engaged in manufacturing creamery butter are classified in Industry 2021, Creamery Butter, and process cheese produced from natural cheese made in the same establishment in Industry 2022, Natural Cheese, and dried or powdered milk in Industry 2023, Concentrated Milks.						
2026 2027	<u>Fluid Milk and Other Products</u>	{ 14.1 177.3 }	82	94	(NA)	(NA)	(NA)
	These two industries are described together because of their close relationship. They comprise establishments primarily engaged in processing (pasteurizing, homogenizing, vitaminizing, bottling) and distributing fluid milk and cream. Establishments primarily engaged in processing fluid milk and which are not engaged in the manufacture of other dairy products are classified in Industry 2026, and those primarily engaged in processing fluid milk, but also manufacturing other dairy products in Industry 2027. Milk receiving stations primarily engaged in the assembly and reshipment of bulk milk for the use of manufacturing or processing plants are excluded.						
203	Canning, preserving, and freezing.....	199.2	95	97	201.1	(NA)	(NA)
2031	<u>Canned Seafood</u>	15.1	96	94	20.2	91	96
	Establishments primarily engaged in cooking and canning fish, shrimps, oysters, clams, and other seafoods. Establishments primarily engaged in shucking, and packing fresh oysters in non-sealed containers, or freezing and packaging fresh fish are included in Industry 2036, Packaged Seafood; frozen cooked fish are classified in Industry 2099, Food Preparations, N.E.C.						
2032	<u>Cured Fish</u>	1.7	97	91	2.4	97	88
	Establishments primarily engaged in smoking, salting, drying, or otherwise curing fish for the trade. The products of the industry consist chiefly of smoked salmon, herring, whitefish, chub, cisco, etc., and salted and pickled fish for further processing, in addition to that produced ready for consumption.						

See footnotes at end of table.

Code	Industry title and description	1954			1947		
		Industry ratio (percent)			Industry ratio (percent)		
		All employees ¹ (1,000)	Specialization ²	Coverage ³	All employees ¹ (1,000)	Specialization ²	Coverage ³
20	FOOD AND KINDRED PRODUCTS--Continued						
203	Canning, preserving, and freezing--Continued						
2033	<u>Canned Fruits and Vegetables</u> (Canned Fruits, Vegetables, Poultry, and Soups; Preserves, Jams, and Jellies).....	119.8	90	94	135.9	91	94
	Establishments primarily engaged in canning fruits, vegetables, and poultry, and fruit and vegetable juices (including soups), and in manufacturing preserves, jams, and jellies. Important products of this industry include canned vegetables (including canned baked beans, and tomato cocktail); fruit and vegetable juices (canned, bottled, and in bulk); canned spaghetti; canned soups (except seafoods-- Industry 2031); canned fruits (including fruit salad and fruit cocktail); preserves; jams, jellies, baby food, except meats; fruit butters; and maraschino cherries.						
2034	<u>Dehydrated Fruits and Vegetables</u> (Dried and Dehydrated Fruits and Vegetables).....	7.0	95	97	4.0	96	90
	Establishments primarily engaged in sun-drying or artificially dehydrating fruits and vegetables, including packaged soup mix prepared from dehydrated ingredients. Important products of this industry include dried dates, dried olives, dried prunes, dried raisins, and other dried fruits and vegetables. Establishments which purchase dried fruits and grade and package them for market are classified in Wholesale Trade.						
2035	<u>Pickles and Sauces</u> (Pickled Fruits and Vegetables, Vegetable Sauces and Seasonings; Salad Dressing).....	121.9	80	75	21.3	84	69
	Establishments primarily engaged in pickling, brining fruits and vegetables, and in manufacturing salad dressings, vegetable relishes, sauces, and seasonings. Important products of this industry include pickles; ketchup (canned, bottled, and in bulk); brined fruits and vegetables; prepared horseradish; sauerkraut in bulk; prepared mustard; tomato chili sauce, and other vegetable sauces; mayonnaise; cooked salad dressings and raw salad dressings, such as French, Thousand-Island, and Russian; and sandwich spread, salad dressing base. Establishments primarily engaged in manufacturing canned and bottled olives; canned sauerkraut, tomato paste, tomato pulp, and tomato purees are classified in Industry 2033, Canned Fruits and Vegetables.						
2036	<u>Packaged Seafood</u> (Fresh or Frozen Packaged Fish).....	112.2	94	95	(NA)	(NA)	(NA)
	Establishments primarily engaged in preparing fresh or frozen packaged fish and other seafood. Industry 2036 also includes establishments primarily engaged in shucking and packaging fresh oysters in non-sealed containers. Establishments primarily engaged in manufacturing canned seafood are classified in Industry 2031, Canned Seafood and cured fish in Industry 2032, Cured Fish. Cold storage warehouses, frozen food locker plants and retail stores freezing or packaging fresh seafood are classified in Trade Industries.						
2037	<u>Frozen Fruits and Vegetables</u> (Frozen Fruits, Fruit Juices, and Vegetables). Establishments primarily engaged in quick-freezing and cold packing (freezing) vegetables, fruits, and fruit juices. Establishments primarily engaged in manufacturing canned and bottled fruits, fruit juices, and vegetables are classified in Industry 2033, Canned Fruits and Vegetables and concentrated fruit juice products for fountain use (not frozen), in Industry 2095, Flavorings. Establishments primarily engaged in packing fruits and vegetables for freezing but not freezing the product; cold storage warehouses freezing foods for others, frozen food locker and other establishments freezing for individual consumers or farms and ranches producing frozen fruits and vegetables are not included in the Census of Manufactures.	121.4	88	84	17.4	789	784

See footnotes at end of table.

Code	Industry title and description	1954			1947		
		All employ- ees ¹	Industry ratio (percent)		All employ- ees ¹	Industry ratio (percent)	
			Spe- cial- iza- tion ²	Cov- er- age ³		Spe- cial- iza- tion ²	Cov- er- age ³
		(1,000)			(1,000)		
20	FOOD AND KINDRED PRODUCTS—Continued						
204	Grain-mill products.....	110.0	99	90	113.2	(NA)	(NA)
2041	<u>Flour and Meal</u> (Flour and Other Grain-Mill Products)..... Establishments primarily engaged in milling flour or meal from grain, except rice (Industry 2044, Rice Milling). Such flour and grain mills may also produce cracked grain used as cereal or stock dry feed, or blended and prepared flours, principally from products ground in the same establishment. Important products of this industry include wheat flour (white; semolina; farina; granular; graham; whole-wheat—blended, phosphated, enriched, self-rising, and other prepared flour); rye, buckwheat, corn, and other flour; prepared flour mixes and corn meal; corn grits and flakes for brewers' use; and bran and middlings. Establishments primarily engaged in manufacturing prepared flour mixes are classified in Industry 2041 if the principal raw material is flour milled in the same establishments; if the flour is milled elsewhere, such blending plants are classified in Industry 2045, Blended and Prepared flour. Establishments primarily engaged in manufacturing prepared animal feeds from grain are classified in Industry 2042, Prepared Animal Feeds. Establishments primarily engaged in custom milling and other agricultural services are not included in the Census of Manufactures.	29.0	94	84	39.6	92	92
2042	<u>Prepared Animal Feeds</u> (Prepared Feeds for Animals and Fowls)..... Establishments primarily engaged in manufacturing prepared feeds for animal and fowls. Prepared feeds include those made from milled grains; animal, marine, and vegetable proteins; alfalfa meals, bone meal, calcium carbonate, manganese, and other mineral supplements; fish liver oils, distillers' solubles, and other vitamin supplements. Mills primarily engaged in the custom grinding of feeds are classified as Agricultural Services and are excluded from the scope of the Census of Manufactures.	59.9	95	90	55.2	95	89
2043	<u>Cereal Breakfast Foods</u> (Cereal Preparations)..... Establishments primarily engaged in manufacturing breakfast foods, coffee substitutes, and other cereal preparations from grain. Principal products of the industry are breakfast cereals made of wheat, corn, or rice, and cereal preparations to be cooked before serving, such as farina and oatmeal. Establishments primarily engaged in manufacturing cracked grain for human consumption are classified in Industry 2041, Flour and Meal, and those engaged chiefly in grinding, cracking or rolling grains for animal feed in Industry 2042, Prepared Animal Feeds.	11.5	77	80	11.3	68	87
2044	<u>Rice Milling</u> (Rice Cleaning and Polishing)..... Establishments primarily engaged in cleaning and polishing rice, and in manufacturing rice flour or meal. Important products of this industry include brown rice, milled rice (including polished rice), rice polish, rice bran, and rice flour.	14.0	99	100	4.1	100	100
2045	<u>Flour Mixes</u> (Blended and Prepared Flour)..... Establishments primarily engaged in the preparation of self-rising or blended flour from purchased flour. Important products of this industry include plain blended flour, and phosphated, self-rising, and other kinds of prepared flour such as biscuit, cake, doughnut, and pancake flour. Establishments primarily engaged in milling flour from grain are classified in Industry 2041, Flour and Meal.	5.6	71	45	3.1	81	17

See footnotes at end of table.

Code	Industry title and description	1954			1947		
		All employ- ees ¹ (1,000)	Industry ratio (percent)		All employ- ees ¹ (1,000)	Industry ratio (percent)	
			Spe- cial- iza- tion ²	Cov- er- age ³		Spe- cial- iza- tion ²	Cov- er- age ³
20	FOOD AND KINDRED PRODUCTS—Continued						
205	Bakery products.....	291.1	99	99	278.8	99	99
2051	Bread and Related Products (Bread and other Bakery Products, except Biscuit, Crackers and Pretzels)..... Establishments primarily engaged in manufacturing bread, cakes, sweet yeast goods, hand-made cookies, doughnuts, pies, pastries, and similar perishable bakery products, for off-premise sale. Establishments primarily engaged in producing "dry" bakery products such as biscuit, crackers, and pretzels are classified in Industry 2052, Biscuit and Crackers. Establishments producing bakery products primarily for direct sale on the premises to household consumers are classified in Retail Trade, Industry 5462. However, those manufacturing bread, cake, etc., for sale primarily through house-to-house routes are included in Industry 2051, Bread and Related Products.	246.3	98	99	232.7	98	99
2052	<u>Biscuit and Crackers</u> (Biscuit, Crackers and Pretzels)..... Establishments primarily engaged in manufacturing biscuit (except raised biscuit), crackers, sponge goods, dry sweet goods, machine-made cookies, pretzels, and similar "dry" bakery products, such as cracker meal, matzoth, sugar wafers and zwieback and rusk (machine-made). Establishments primarily engaged in producing "perishable" bakery products are classified in Industry 2051, Bread and Related Products.	44.8	97	93	46.1	96	93
206	Sugar.....	¹ 30.2	100	100	35.4	100	100
2061	<u>Raw Cane Sugar</u> (Cane Sugar, Except Refining)..... Establishments primarily engaged in manufacturing raw sugar, sirup, or finished (granulated or clarified) cane sugar from sugar cane. Establishments primarily engaged in refining sugar from purchased raw cane sugar and sugar sirup are classified in Industry 2062, Cane Sugar Refining, and corn sirup in Industry 2094, Corn Products.	¹ 3.1	⁸ 96	97	4.6	⁸ 97	100
2062	<u>Cane Sugar Refining</u> Establishments primarily engaged in refining purchased raw cane sugar and liquid sugar. Establishments primarily engaged in manufacturing flavoring sirups or extracts are classified in Industry 2095, Flavorings.	¹ 16.1	⁸ 100	100	17.4	⁸ 100	100
2063	<u>Beet Sugar</u> Establishments primarily engaged in the manufacture of beet sugar from sugar beets.	¹ 11.0	⁸ 99	100	13.4	100	100
207	Confectionery and related products.....	80.4	97	95	91.7	(NA)	(NA)
2071	<u>Confectionery Products</u> (Candy and Other Confectionery Products)..... Establishments primarily engaged in manufacturing candy and other confections such as chocolate candies (fancy-package, bulk, or count), chocolate covered bars, marshmallows, lozenges, fudge, candied and crystallized fruits, candy-covered nuts, salted nuts, stuffed dates, popcorn balls, and related products. Establishments primarily engaged in manufacturing solid chocolate bars are classified in Industry 2072, Chocolate and Cocoa Products; chewing gum in Industry 2073, Chewing Gum, and cough drops selling at retail for more than 10 cents in Industry 2834, Pharmaceutical Preparations. Establishments primarily manufacturing confectionery for direct sale on the premises, and establishments primarily engaged in shelling and roasting nuts are included in Trade Industries.	66.8	95	96	75.2	97	97

See footnotes at end of table.

Code	Industry title and description	1954			1947		
		All employ- ees ¹ (1,000)	Industry ratio (percent)		All employ- ees ¹ (1,000)	Industry ratio (percent)	
			Spe- cial- iza- tion ²	Cov- er- age ³		Spe- cial- iza- tion ²	Cov- er- age ³
20	FOOD AND KINDRED PRODUCTS--Continued						
207	Confectionery and related products--Continued						
2072	<u>Chocolate and Cocoa Products</u>	8.5	98	89	9.6	⁸ 99	100
	Establishments primarily engaged in manufacturing chocolate and cocoa butter from cocoa beans, and in the further manufacture of cocoa, solid chocolate bars, and chocolate coatings. Important products of this industry include solid chocolate, chocolate coatings, powdered cocoa, and cocoa butter. Establishments primarily engaged in manufacturing chocolate candies from purchased chocolate are classified in Industry 2071, Confectionery Products; and instant chocolate and cocoa from purchased chocolate and cocoa in Industry 2099, Food Preparations, N.E.C.						
2073	<u>Chewing Gum</u>	5.2	⁸ 95	98	6.9	(D)	(D)
	Establishments primarily engaged in the manufacture of non-medicated chewing gum and chewing gum base. Establishments primarily engaged in the manufacture of gum pharmaceutical preparations (medicated chewing gum) are classified in Industry 2834, Pharmaceutical Preparations.						
208	<u>Beverages</u>	202.8	99	100	202.6	(NA)	(NA)
2081	<u>Bottled Soft Drinks</u> (Bottled Soft Drinks and Carbonated Waters).....	91.6	98	99	79.4	99	99
	Establishments primarily engaged in manufacturing bottled or canned soft drinks (nonalcoholic beverages) and carbonated waters. Establishments primarily engaged in manufacturing fruit and vegetable juices are classified in Industry 2033, Canned Fruits and Vegetables; fruit sirups for flavoring in Industry 2095, Flavorings, and cider in Industry 2099, Food Preparations, N.E.C. Establishments primarily engaged in bottling natural spring waters are classified in Trade Industries.						
2082	<u>Beer and Ale</u> (Malt Liquors).....	81.3	100	100	82.5	100	99
	Establishments primarily engaged in manufacturing all kinds of malt liquors such as ale, beer, porter, stout, and malt extract. Establishments primarily engaged in bottling purchased malt liquors are classified in Trade Industries.						
2083	<u>Malt</u>	2.6	100	100	2.5	100	100
	Establishments primarily engaged in manufacturing malt or malt by-products, such as malt sprouts, screening, chaff, and skimmings, from barley or other grains.						
2084	<u>Wines and Brandy</u> (Wines, Brandy, and Brandy Spirits).....	¹ 5.7	⁹ 90	96	7.7	⁹ 90	100
	Establishments primarily engaged in manufacturing wines, brandy, and brandy spirits. Bonded storerooms which engage in blending wines are also included in this industry. Establishments primarily bottling purchased wines, brandy and brandy spirits but which do not manufacture or blend wines and brandy are classified in Trade Industries.						
2085	<u>Distilled Liquor, Except Brandy</u> (Distilled, Rectified, and Blended Liquors)	¹ 21.5	99	100	30.4	99	99
	Establishments primarily engaged in manufacturing alcoholic liquors by distillation and rectification, and in manufacturing cordials and alcoholic cocktails by blending processes, or by mixing liquors and other ingredients. Important products of this industry include grain alcohol (neutral spirits), straight and blended whiskies, rum, gin, cordials, liqueurs, and prepared alcoholic cocktails. Establishments primarily engaged in manufacturing industrial alcohol are classified in Industry 2829, Organic Chemicals, N.E.C., and those only bottling purchased liquors in Trade Industries.						

See footnotes at end of table.

Code	Industry title and description	1954			1947		
		All employ- ees ¹ (1,000)	Industry ratio (percent)		All employ- ees ¹ (1,000)	Industry ratio (percent)	
			Spe- cial- iza- tion ²	Cov- er- age ³		Spe- cial- iza- tion ²	Cov- er- age ³
20	FOOD AND KINDRED PRODUCTS—Continued						
209	Miscellaneous food preparations and kindred products.....	138.7	95	89	151.8	(NA)	(NA)
2091	<u>Leavening Compounds</u> (Baking Powder, Yeast, and Other Leavening Compounds).. Establishments primarily engaged in the manufacture of baking powder, yeast, and other compounds used for leavening purposes. Establishments primarily engaged in manufacturing yeast tablets for human use are classified in Industry 2834, Pharmaceutical Preparations.	2.7	89	90	3.1	(D)	(D)
2092	<u>Shortening and Cooking Oils</u> (Shortening and Other Cooking and Edible Fats and Oils N.E.C.)..... Establishments primarily engaged in manufacturing edible vegetable and compound shortenings, vegetable cooking oils, salad oils, and other refined table oils not elsewhere classified, by further processing of purchased animal and vegetable oils. Refined salad or cooking oils include those which have been bleached, deodorized, or winterized. Other products included in this industry are mono- and di-glycerides, olive oil, and refined vegetable oils. Establishments primarily engaged in producing margarine are classified in Industry 2093, Margarine; corn oil in Industry 2094, Corn Wet Milling; and cottonseed, linseed, soybean, marine, and other animal and vegetable oils in Group 288, Vegetable and Animal Oils.	19.4	85	89	8.0	82	96
2093	<u>Margarine</u> (Oleomargarine)..... Establishments primarily engaged in manufacturing margarine, nut margarine, etc.	12.6	90	62	2.6	81	73
2094	<u>Corn Wet Milling</u> (Corn Sirup, Corn Sugar, Corn Oil, and Starch)..... Establishments primarily engaged in manufacturing sirup, sugar, oil, and starch from corn (wet-process corn milling). Establishments primarily engaged in manufacturing potato, rice, wheat, root, and other starches are also included in this industry. Establishments primarily engaged in manufacturing mixed or blended sweetening sirups containing corn sirup are classified in Industry 2099, Miscellaneous Food Preparations, N.E.C., and those primarily engaged in manufacturing corn meal and grits are classified in Industry 2041, Flour and Meal.	13.6	91	96	12.3	88	96
2095	<u>Flavorings</u> (Flavoring Extracts and Flavoring Sirups, N.E.C.)..... Establishments primarily engaged in manufacturing flavoring extracts, sirups, and fruit juices, not elsewhere classified, for soda fountain use or for the manufacture of soft drinks, and colors for bakers' and confectioners' use. Important products of this industry include flavoring extracts, flavoring concentrates; flavoring powders and pastes; burnt-sugar and other food colors; flavoring sirups; and crushed fruit for fountain use. Establishments primarily engaged in manufacturing frozen concentrated fruit juices are classified in Industry 2037, Frozen Fruits and Vegetables; chocolate sirups in Industry 2072, Chocolate and Cocoa Products; mixed or blended sweetening sirups and molasses in Industry 2099, Miscellaneous Food Preparations, N.E.C., and synthetic food dyes and colors in Industry 2822, Intermediate Coal Tar Products.	10.6	91	87	11.7	93	89
2097	<u>Manufactured Ice</u> Establishments primarily engaged in manufacturing ice for sale. Establishments primarily engaged in manufacturing dry ice are classified in Industry 2896, Compressed and Liquefied Gases. Establishments primarily engaged in harvesting and storage of natural ice for sale and cold storage warehouses manufacturing ice are excluded from the Census of Manufactures.	120.9	100	97	46.5	100	98

See footnotes at end of table.

Code	Industry title and description	1954			1947		
		All employ- ees ¹ (1,000)	Industry ratio (percent)		All employ- ees ¹ (1,000)	Industry ratio (percent)	
			Spe- cial- iza- tion ²	Cov- er- age ³		Spe- cial- iza- tion ²	Cov- er- age ³
20	FOOD AND KINDRED PRODUCTS--Continued						
209	Miscellaneous food preparations and kindred products--Continued						
2098	Macaroni and Spaghetti (Macaroni, Spaghetti, Vermicelli, and Noodles)..... Establishments primarily engaged in manufacturing macaroni, spaghetti, vermicelli, and noodles. Establishments primarily engaged in manufacturing packaged macaroni or spaghetti dinners with cheese or sauce (except canned) are also included in this industry. Establishments primarily engaged in manufacturing canned spaghetti are classified in Industry 2033, Canning and Preserving, Except Fish.	7.1	98	95	8.0	⁸ 98	99
2099	Miscellaneous Food Preparations, N.E.C..... Establishments primarily engaged in manufacturing prepared foods and miscellaneous food specialties not elsewhere classified, such as baked beans (not canned); bakers', confectioners', and household supplies (including chili pepper and powder, desiccated and shredded coconut, marshmallow creme, pie and cake fillings, and powdered sugar); bouillon cubes; brown bread (canned, Boston, and other); coffee; instant chocolate and cocoa; ready-to-mix desserts; egg albumen; eggs (dehydrated), desiccated, processed, canned, liquid and frozen; "health foods"; ice-cream cones and wafers; Italian, Spanish, Mexican, and Chinese cakes and other "native" preparations; meat pies; mincemeat; molasses (mixed or blended); peanut products (except peanut candy and salted peanuts); pectin; potato chips; ravioli; spices and meat seasonings; sweetening sirups (including honey, maple sirup, and sorghum); tea, packaged and blended; vinegar and cider. Establishments primarily engaged in manufacturing instant chocolate and cocoa from purchased chocolate are included in this industry; in Industry 2072, Chocolate and Cocoa Products, if the establishment manufactures chocolate primarily from cocoa beans. Establishments primarily engaged in roasting coffee are included in Industry 2099, but coffee roasting done by wholesale grocers is classified in Trade Industries. Establishments primarily engaged in the grading and packaging and sale of shell eggs are also classified in Trade Industries.	¹ 72.0	94	86	59.6	92	80
21	TOBACCO MANUFACTURES This major group includes establishments engaged in manufacturing cigarettes, cigars, smoking and chewing tobacco, and snuff, and in stemming and redrying tobacco. The manufacture of insecticides from tobacco by-products is included in Major Group 28, Chemicals and Products.						
211	Cigarettes.....	¹ 30.0	99	100	27.7	96	100
2111	Cigarettes..... Establishments primarily engaged in the manufacture of cigarettes.	¹ 30.0	99	100	27.7	96	100
212	Cigars.....	¹ 38.5	99	100	47.1	99	100
2121	Cigars..... Establishments primarily engaged in the manufacture of cigars.	¹ 38.5	99	100	47.1	99	100
213	Chewing and smoking tobacco.....	¹ 7.5	96	89	11.1	98	86
2131	Chewing and Smoking Tobacco (Tobacco, Chewing and Smoking, and Snuff)..... Establishments primarily engaged in the manufacture of chewing and smoking tobacco and snuff.	¹ 7.5	96	89	11.1	98	86

See footnotes at end of table.

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		All employ- ees ¹ (1,000)	Industry ratio (percent)		All employ- ees ¹ (1,000)	Industry ratio (percent)	
			Spe- cial- iza- tion ²	Cov- er- age ³		Spe- cial- iza- tion ²	Cov- er- age ³
21	TOBACCO MANUFACTURES—Continued						
214	Tobacco stemming and redrying.....	¹ 18.8	100	99	25.9	100	98
2141	<u>Tobacco Stemming and Redrying</u>	¹ 18.8	100	99	25.9	100	98
	Establishments primarily engaged in the stemming and/or redrying of tobacco. Establishments primarily engaged in producing scrap filler for cigars are also included in this industry.						
22	TEXTILE MILL PRODUCTS						
	This major group includes establishments engaged in performing any of the following operations regardless of the type of fiber used: (1) manufacturing yarn, thread, cordage, and twine (2) manufacturing woven fabric, carpets and rugs, braids, laces, knit fabric, knit garments, carpets and rugs, and other products from yarn (3) dyeing and finishing fibers, yarn, and fabrics; and (4) coating, waterproofing and otherwise treating fabric. Establishments weaving or knitting fabrics and also manufacturing finished apparel or other fabricated textile products in the same establishment are included in this major group; those manufacturing apparel and other fabricated textile products from fabrics knit or woven elsewhere are classified in Major Group 23, Apparel and Related Products. Knitwear converters buying raw materials, arranging for the knitting and finishing, and selling the final product are included as manufacturers in Group 225, Knitting Mills; however, other textile converters, jobbers, or dealers are classified in Trade Industries. Establishments primarily engaged in sponging, shrinking, burling or mending of cloth for the trade or employing home workers for hand-knitting or hand-weaving of textile products, are included in Industry 2399, Fabricated Textile Products, N.E.C. The rubberizing of fabrics is classified in Major Group 30, Rubber Products.						
221	Woolen and worsted manufactures.....	91.5	97	93	179.7	(NA)	(NA)
2211	<u>Scouring and Combing Plants</u>	7.0	83	60	8.4	(NA)	(NA)
	Establishments primarily engaged in processing textile fibers to prepare them for spinning. Important processes included in this industry are wool scouring and carbonizing, and producing tops on worsted combs from wool, rayon, or other synthetic fibers. Establishments primarily engaged in the production of top from tow without combing and in the production of nubs and slubs are also included in Industry 2211. By-products of the industry include noils and recovered wool grease. Plants primarily engaged in processing textile mill waste for spinning and in recovering fibers from clips and rags, are classified in Industry 2294, Processed Textile Waste.						
2212	<u>Yarn Mills, Wool, Except Carpet</u> (Part of S.I.C. Industry 2221, Yarn Mills).....	17.8	93	85	33.2	90	81
	Establishments primarily engaged in spinning, twisting, winding, or spooling yarn, except carpet and rug yarn, on the woolen or worsted system. This includes yarn spun on the French, Bradford and American systems of worsted spinning. Establishments primarily engaged in manufacturing woolen or worsted carpet and rug yarns are classified in Industry 2271, Wool Carpets, Rugs, and Carpet Yarn.						
2213	<u>Woolen and Worsted Fabrics</u> (Equivalent to S.I.C. Industry 2232, Broad Woven Fabric Mills, Woolen and Worsted).....	62.5	92	95	132.3	90	97
	Establishments primarily engaged in weaving woolen and worsted fabrics over 12 inches in width. Important products of this industry include woolen and worsted apparel fabrics, household fabrics, industrial and mechanical fabrics; and woven felts and haircloth. Establishments primarily engaged in weaving wool carpets and rugs are classified in Industry 2271, Wool Carpets and Rugs.						

See footnotes at end of table.

Code	Industry title and description	1954			1947		
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			Spe- cial- iza- tion ²	Cov- er- age ³		Spe- cial- iza- tion ²	Cov- er- age ³
22	TEXTILE MILL PRODUCTS—Continued						
221	Woolen and worsted manufactures—Continued						
2216	<u>Finishing Wool Textiles</u> (Equivalent to S.I.C. Industry 2262, Dyeing and Finishing Woolen and Worsted Goods)..... Establishments primarily engaged in dyeing and finishing woven woolen or worsted fabrics or in dyeing wool, tops, or yarn	4.2	(11)	(11)	5.8	(11)	(11)
222	Yarn and thread mills, except wool.....	111.0	95	93	151.0	(NA)	(NA)
2222	<u>Yarn Throwing Mills</u> Establishments primarily engaged in throwing or twisting filament yarn (continuous strands) of silk, rayon, or other synthetic fibers. Establishments primarily engaged in the winding and warping of filament yarn are also included in this industry; those engaged in similar operations on spun yarn are classified in Industry 2224, Yarn Mills, Cotton System.	11.8	93	79	14.9	(NA)	(NA)
2223	<u>Thread Mills</u> Establishments primarily engaged in manufacturing thread of cotton, wool, silk, rayon or other synthetic fibers. Important products of this industry include sewing, crochet, darning, embroidery, tatting, and hand-knitting threads. Establishments primarily engaged in finishing thread are also included in this industry. Establishments primarily engaged in manufacturing flax thread are included in Industry 2299, Textile Goods, N.E.C.; and cordage and twine in Industry 2298, Cordage and Twine.	13.9	88	94	14.7	85	(NA)
2224	<u>Yarn Mills, Cotton and Silk System</u> (Part of S.I.C. Industry 2221, Yarn Mills, Cotton, Wool, Silk, and Synthetic Fiber)..... Establishments primarily engaged in the spinning of yarn on the cotton or silk system from cotton, wool, silk, rayon, or other man-made staple fibers, or in the manufacture of tire cord and fabric. Establishments primarily engaged in twisting, winding, plying, or spooling of spun yarns are also included in this industry. Important products of this industry include weaving, machine-knitting, hand-knitting, crochet, darning and embroidery yarns; tire cord and fabric.	85.3	95	92	121.4	(NA)	(NA)
223	Broad-woven fabrics.....	386.2	95	88	427.8	(NA)	(NA)
2233	<u>Cotton Broad-Woven Fabrics</u> (Part of S.I.C. Industry 2231, Broad-Woven Fabric Mills, Cotton, Silk, and Synthetic Fiber)..... Establishments primarily engaged in weaving fabrics over 12" in width, of cotton or mixtures in which cotton is the principal fiber by weight. Important products of this industry include apparel fabrics, and mechanical and industrial fabrics of cotton; such as duck, osnaburgs, sheetings, print cloth, flannels, denims, shirtings, towelings, draperies and upholstery fabrics. Establishments weaving gray goods and further processing them into finished fabrics or fabricated textile products such as sheets, towels, bedspreads, etc., are classified in this industry. Establishments primarily engaged in weaving cotton carpets and rugs are classified in Industry 2273, Carpets and Rugs, Except Wool.	296.2	94	84	330.2	(NA)	(NA)
2234	<u>Synthetic-Broad Woven Fabrics</u> (Part of S.I.C. Industry 2231, Broad-Woven Fabric Mills, Cotton, Silk, and Synthetic Fiber)..... Establishments primarily engaged in weaving fabrics over 12" in width of silk or man-made fibers, including mixtures in which those fibers are the principal fiber by weight. Paper and glass broad woven fabrics are included in this industry. Important products of the industry include apparel fabrics, household fabrics, and industrial and mechanical fabrics of the specified fibers.	90.0	87	90	97.6	85	(NA)

See footnotes at end of table.

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		All employ- ees ¹ (1,000)	Industry ratio (percent)		All employ- ees ¹ (1,000)	Industry ratio (percent)	
			Spe- cial- iza- tion ²	Cov- er- age ³		Spe- cial- iza- tion ²	Cov- er- age ³
22	TEXTILE MILL PRODUCTS—Continued						
224	Narrow fabric mills.....	25.7	96	94	28.1	95	98
2241	<u>Narrow Fabric Mills</u> (Narrow Fabrics and Other Smallwares Mills: Cotton, Wool, Silk, and Synthetic Fiber)..... Establishments primarily engaged in weaving or braiding fabrics 12" or narrower in width of cotton, wool, silk, rayon, or other synthetic fibers. Establishments primarily engaged in weaving or braiding fabrics 12" or narrower in width of fabric-covered elastic yarn are also included in this industry. Important products of this industry include fabric belting (mechanical and apparel), ribbons, tapes, bindings, and gimps, woven labels, hatbands, elastic and nonelastic webbing, covered rubber yarns and threads, and fabric lacings.	25.7	96	94	28.1	95	98
225	Knitting mills.....	221.4	98	(NA)	229.3	(NA)	(NA)
2251	<u>Full-Fashioned Hosiery Mills</u> Establishments primarily engaged in knitting, dyeing and finishing full-fashioned hosiery. Establishments seaming and looping full-fashioned hosiery are also included in this industry.	60.2	⁹⁰ 90	⁹⁰ 90	70.0	⁹⁰ 90	⁹⁰ 90
2252	<u>Seamless Hosiery Mills</u> Establishments primarily engaged in knitting, dyeing or finishing seamless (circular knit) hosiery. The principal products of this industry are seamless hosiery, finished or sold as greige goods, including anklets, slipper socks, pads, and athletic socks.	63.4	96	93	64.9	96	91
2253	<u>Knit Outerwear Mills</u> Establishments primarily engaged in knitting outerwear, or in manufacturing outerwear from knit fabric produced in the same establishment. Establishments primarily engaged in hand knitting outerwear for the trade are also included in this industry. Important products of Industry 2253 include sweaters, bathing suits, dresses, and headwear. Establishments primarily engaged in manufacturing gloves and mittens are classified in Industry 2255, Knit-Glove Mills, Group 238, Miscellaneous Apparel or Group 315, Leather Gloves and those manufacturing outerwear from woven fabric or purchased knit fabric in Major Group 23, Apparel and Related Products.	46.4	93	73	34.5	91	82
2254	<u>Knit Underwear Mills</u> Establishments primarily engaged in knitting underwear and nightwear, or in manufacturing underwear and nightwear from knit fabric produced in the same establishment. Establishments primarily engaged in manufacturing underwear and nightwear from woven fabric or purchased knit fabric are classified in Major Group 23, Apparel and Related Products.	31.3	88	39	40.6	87	70
2255	<u>Knit Glove Mills</u> Establishments primarily engaged in knitting or crocheting gloves and mittens, or in manufacturing gloves and mittens from knit fabric produced in the same establishment. Establishments primarily engaged in manufacturing gloves and mittens from purchased knit fabric are classified in Group 238, Miscellaneous Apparel.	2.0	86	20	4.8	91	34

See footnotes at end of table.

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			Spe- cial- iza- tion ²	Cov- er- age ³		Spe- cial- iza- tion ²	Cov- er- age ³
22	TEXTILE MILL PRODUCTS—Continued						
225	Knitting mills—Continued						
2256	Knit Fabric Mills..... Establishments primarily engaged in knitting tubular or flat fabric (in- cluding warp-knit mosquito metting) and in dyeing or finishing knit fa- brie. Included in Industry 2256 are knit fabric mills operated by multi-plant companies which transfer the knit cloth to other plants of the same company for further fabrication into such products as knit underwear and gloves. The plants cutting and sewing the knit cloth are classified in one of the industries in Major Group 23, Apparel and Re- lated Products. On the other hand, if the knitting mill is integrated in that it both makes the knitted cloth and knitted apparel, it is classified in one of the knitting industries in Group 225.	16.8	94	91	13.5	93	88
2259	Knitting Mills, N.E.C..... Establishments primarily engaged in knitting articles not elsewhere classified, such as knit curtains, washcloths, dishcloths, and towels. Establishments primarily engaged in manufacturing from purchased fa- brics, curtains and draperies, are classified in Industry 2391, Cur- tains and Draperies, and housefurnishings such as sheets, pillowcases, blankets, bedspreads, etc., are classified in Industry 2392, Housefur- nishings.	1.4	62	75	1.0	98	89
226	Finishing textiles, except wool.....	79.3	86	41	78.0	(NA)	(NA)
2261	Finishing Textiles, Except Wool (Dyeing and Finishing Textiles, Except Woolen and Worsted Textiles and Knit Goods)..... Establishments primarily engaged in bleaching, dyeing, printing, finish- ing or otherwise processing fabrics, yarn, or raw stock other than woolen or worsted. Plants primarily engaged in flocking or sueding of fabrics or printing or embossing on plastic are also included in this industry. Establishments primarily engaged in dyeing or finishing knit goods are classified in Industry Group 225, Knitting Mills; and in fin- ishing woolen and worsted goods, in Industry 2216, Finishing Wool Tex- tiles (Census equivalent of Standard Industrial Classification Industry 2262). The sponging and shrinking of cloth is included in Industry 2399, Fabricated Textile Products, N.E.C. Establishments manufacturing basic textiles (yarn or fabric) are classified as yarn mills or woven fabric mills, Industries 2222, 2223, 2224, 2233, or 2234, even though all or a part of the shipments con- sist of finished products. This practice differs from that employed for most industries, where the primary product shipped determines the industrial classification. The exception was made here in the Stan- dard Industrial Classification because in an integrated mill the basic textile operation usually constitutes the primary activity, in terms of labor and capital input.	79.3	86	41	78.0	(NA)	(NA)
227	Carpets, rugs, and other floor coverings.....	51.2	95	98	57.1	(NA)	(NA)
2271	Wool Carpets and Rugs (Wool carpets, Rugs and Carpet Yarn)..... Establishments primarily engaged in weaving carpets and rugs wholly or in part of woolen or worsted yarn. This industry also includes estab- lishments primarily engaged in spinning woolen or worsted yarn for use in carpets and rugs. Important products of this industry include woven wool carpets and rugs (Axminster, Wilton, plain or printed velvet, chenille, Smyrna; wool automobile and aircraft floor covering; and carpet woolen and worsted system yarn.) Establishments primarily engaged in spinning woolen or worsted yarn for other than carpets and rugs are classified in Industry 2212 (Part of Standard Industrial Classification 2221), Yarn Mills.	30.1	90	95	40.1	90	95

See footnotes at end of table.

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			Spe- cial- iza- tion ²	Cov- er- age ³		Spe- cial- iza- tion ²	Cov- er- age ³
22	TEXTILE MILL PRODUCTS—Continued						
227	Carpets, rugs, and other floor coverings—Continued						
2273	<u>Carpets and Rugs, Except Wool</u> (Carpets, Rugs, and Mats from Fiber, Except Wool)..... Establishments primarily engaged in manufacturing rugs, carpets, art squares, floor mattings, and door mats and mattings from any fiber except wool. Materials used include cotton, rayon, nylon, twisted paper, grasses, reeds, coir (cocoa fiber), sisal, jute, and rags. Establishments primarily engaged in dyeing floor coverings (other than wool) are also included in this industry.	11.5	95	83	7.1	84	86
2274	<u>Hard-Surface Floor Coverings</u> (Linoleum, Asphalted-Felt-Base, and Other Hard-Surface Floor Coverings, N.E.C.)..... Establishments primarily engaged in manufacturing linoleum, cork carpets, asphalted-felt-base and other hard-surface floor coverings, not elsewhere classified. Establishments primarily engaged in manufacturing supported plastic floor and wall covering are also included in this industry, but those primarily engaged in extruding plastic sheeting and tile (unsupported) are classified in Industry 3971, Fabricated Plastic Products, N.E.C. Establishments primarily engaged in manufacturing rubber floor covering are classified in Industry 3099, Rubber Industries, N.E.C., and asphalt floor tile in Industry 3292, Asbestos Products.	19.6	85	97	9.9	91	100
228	Hats (except cloth and millinery).....	13.0	98	98	21.4	(NA)	(NA)
2281	<u>Fur-Felt Hats and Hat Bodies</u> Establishments primarily engaged in manufacturing fur-felt hat bodies from hatters' fur, in manufacturing finished fur-felt hats from hat bodies produced in the same establishment, and in manufacturing men's and boys' finished fur-felt hats from purchased hat bodies.	8.2	92	93	13.0	94	97
2282	<u>Wool-Felt Hats and Hat Bodies</u> Establishments primarily engaged in manufacturing wool-felt hat bodies from raw wool and wool waste, in manufacturing wool-felt hats from hat bodies produced in the same establishment, and in manufacturing men's and boys' finished wool-felt hats from purchased hat bodies.	1.8	82	96	4.4	76	97
2283	<u>Straw Hats</u> Establishments primarily engaged in manufacturing straw hat bodies, in manufacturing straw hats from hat bodies produced in the same establishment, and in manufacturing men's and boys' finished straw hats from purchased hat bodies.	2.3	87	75	2.4	83	74
2284	<u>Hatters' Fur</u> Establishments primarily engaged in producing hatters' fur for use as material in manufacturing fur-felt bodies.	.8	95	100	1.5	(D)	(D)
229	Miscellaneous textile goods.....	58.2	93	90	60.0	(NA)	(NA)
2291	<u>Felt Goods, N.E.C.</u> (Felt Goods, Except Woven Felts and Hats)..... Establishments primarily engaged in manufacturing insulating and automotive felts, under-rug mats, and other felt goods, from wool, hair, and jute, by means of heat, moisture, and pressure, or by the needle-loom process. Establishments primarily engaged in manufacturing wool woven felts and haircloth are classified in Industry 2213, Woolen and Worsted Fabrics; felt hats in Group 228, Hats, Except Cloth and Millinery; and building paper felt, Industry 2613, Building Paper and Board Mills.	6.0	90	92	4.7	95	97

See footnotes at end of table.

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			Spe- cial- iza- tion ²	Cov- er- age ³		Spe- cial- iza- tion ²	Cov- er- age ³
22	TEXTILE MILL PRODUCTS--Continued						
229	Miscellaneous textile goods--Continued						
2292	<u>Lace Goods</u> Establishments primarily engaged in manufacturing lace-machine products such as levers laces, bobbinet, Nottingham lace (curtain nets, curtains, bedspreads, table covers), and Barmen lace. This industry also includes establishments primarily engaged in dyeing and finishing lace goods. Establishments primarily engaged in manufacturing machine embroidery are classified in Industry 2397, Schiffli-Machine Embroideries or 2398, Embroideries, Except Schiffli.	7.4	99	94	8.6	94	97
2293	<u>Paddings and Upholstery Filling</u> Establishments primarily engaged in manufacturing batting, padding, wadding, and upholstery filling from curled hair, cotton, moss, hemp tow, flax tow, kapok, and related materials. Establishments primarily manufacturing hard fiber automotive and other pads are also included in this industry. Establishments primarily engaged in manufacturing excelsior pads and wrappers are classified in Industry 2425, Excelsior Mills.	9.1	91	90	8.3	96	92
2294	<u>Processed Textile Waste (Processed Waste and Recovered Fibers)</u> Establishments primarily engaged in processing textile-mill waste for spinning and other uses, and in recovering cotton, wool, rayon, silk, and other fibers from clippings and rags. Establishments primarily engaged in manufacturing oakum are also included in this industry. Establishments primarily engaged in processing wiping rags are classified in Wholesale Trade. Sales by textile mills of "original" mill waste such as card strips, comber noils and sweepings are not included as processed textile waste.	5.8	96	93	5.8	94	94
2295	<u>Coated Fabrics, Except Rubberized (Artificial Leather, Oilcloth, and Other Impregnated and Coated Fabrics, Except Rubberized)</u> Establishments primarily engaged in manufacturing artificial leather, oilcloth, and other coated and impregnated fabrics, and in the finishing of textiles such as the waxing of cloth and finishing of cambric and buckraw. Establishments primarily engaged in waterproofing, flameproofing, mildew proofing, mercerizing, and embossing textile fabrics are classified in Industry 2261, Finishing Textiles, Except Wool. Establishments primarily engaged in manufacturing coated and processed paper, including varnished and leatherette paper, are classified in Industry 2641, Paper Coating and Glazing; and those manufacturing rubberized fabrics in Industry 3099, Rubber Industries, N.E.C.	18.5	86	82	8.6	84	82
2298	<u>Cordage and Twine</u> Establishments primarily engaged in manufacturing rope, cable, cordage, twine, nets, and seines and related goods, from hemp, jute, cotton, paper, flax, and other fibers. Establishments primarily engaged in manufacturing cotton yarns for cordage, rope and twine are classified in Industry 2224, Yarn Mills, Cotton System; and linen nets and seines in Industry 2299, Textile Goods, N.E.C.	12.3	90	89	16.4	87	87
2299	<u>Textile Goods, N.E.C. (Includes S.I.C. Industry 2297, Jute Goods, Except Felt, and Industry 2299, Textile Goods, N.E.C.)</u> Establishments primarily engaged in manufacturing linen goods, jute goods, except felts and other textile goods, not elsewhere classified. Important products of this industry include flax yarn and thread; linen fabrics; jute yarn, roving, webbing and bagging; non-woven (bonded) fiber fabrics; novelty yarns made from purchased yarns, glass fiber yarn and cord; paper yarns; metallic yarns; hemp and ramie yarn, thread, and textiles; rope slings and scaffolds; and linen nets and seines. Establishments primarily engaged in manufacturing linen or jute cordage and twine are classified in Industry 2298, Cordage and Twine. Establishments primarily engaged in manufacturing jute felts are classified in Industry 2291, Felt Goods (Except Woven Felts and Hats).	9.0	88	81	7.6	87	76

See footnotes at end of table.

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		All employ- ees ¹ (1,000)	Industry ratio (percent)		All employ- ees ¹ (1,000)	Industry ratio (percent)	
			Spe- cial- iza- tion ²	Cov- er- age ³		Spe- cial- iza- tion ²	Cov- er- age ³
23	<p>APPAREL AND RELATED PRODUCTS</p> <p>This major group of industries are generally known as the cutting up and needle trades industries, and include establishments producing clothing and fabricated textile products by cutting and sewing purchased woven or knit textile fabrics and related materials such as leather, rubberized fabrics, plastics and furs. There are three types of establishments which operate in the apparel industries included in Major Group 23: (1) the regular factories or "manufacturers"; (2) the apparel "jobbers"; and (3) the contract factories or "contractors". The "manufacturers" purchase fabric, employ production workers in their own plants to cut and sew the materials into apparel, and sell the final product; in effect, such establishments perform all of the usual manufacturing functions within their own establishments. The "jobbers", on the other hand, primarily perform the entrepreneurial functions of a manufacturing company such as buying raw materials, designing and preparing samples, arranging for the manufacture of the garments from their materials, and selling of the finished apparel. The actual processing (cutting, sewing, etc.) is performed on contract by the apparel contractors, although many jobbers perform the cutting operation in their own establishments.</p> <p>Excluded from Major Group 23 are knitting mills primarily engaged in manufacturing apparel from yarns knitted in the same establishment; such plants are included in Group 225, Knitting Mills. Furthermore, establishments primarily engaged in manufacturing felt and straw hats, except millinery, are included in Group 228, Hats, Except Cloth and Millinery; those producing leather shoes and gloves in Major Group 31, Leather and Leather Products; and rubber footwear in Industry 3021, Rubber Footwear. Custom tailors and dressmakers, who manufacture and sell apparel in the same retail establishment, are classified as nonmanufacturing. Similarly, establishments which are primarily wholesalers or dealers in that they purchase and resell finished garments but do not perform the functions of the apparel jobbers described below are classified in Wholesale Trade.</p>						
231	Men's and boys' suits and coats.....	121.7	91	96	151.1	92	97
2311	<p><u>Men's and Boys' Suits and Coats</u> (Men's, Youths', and Boys' Suits, Coats, and Overcoats).....</p> <p>Establishments primarily engaged in manufacturing men's, youths', boys' suits, coats, and overcoats. Establishments primarily engaged in manufacturing uniforms (military, policemen's, firemen's, etc.) and tailored dress and sport coats, including sport and leisure jackets, are also included in this industry. Establishments primarily engaged in manufacturing men's work and sport garments (such as lumber-jackets, ski suits, and riding garments) are classified in Group 232, Men's and Boys' Furnishings, Work Clothing and Allied Garments.</p>	119.0	91	96	147.1	92	97
2312	<p><u>Suit and Coat Findings</u>.....</p> <p>Establishments primarily engaged in manufacturing suit and coat findings such as coat fronts, interlinings, collar linings, trouser waistbands, and shoulder pads, or in making buttonholes for men's, youths', and boys' coats and suits.</p>	2.7	98	95	4.0	99	99

See footnotes at end of table.

Code	Industry title and description	1954			1947		
		All employ- ees ¹ (1,000)	Industry ratio (percent)		All employ- ees ¹ (1,000)	Industry ratio (percent)	
			Spe- cial- iza- tion ²	Cov- er- age ³		Spe- cial- iza- tion ²	Cov- er- age ³
23	APPAREL AND RELATED PRODUCTS—Continued						
232	Men's and boys' furnishings.....	285.6	94	81	253.0	(NA)	(NA)
2321	<u>Men's Dress Shirts and Nightwear</u> (Men's, Youths', and Boys' Shirts, Except Work Shirts, Collars, and Nightwear)..... Establishments primarily engaged in manufacturing men's, youths', and boys' shirts, collars, and nightwear cut and sewed from purchased woven or knit fabric. Establishments primarily engaged in manufacturing knit outerwear sport shirts, including polo, tennis, basque, and T-shirts, cut and sewed from purchased knit fabric are also classified in Industry 2321. Establishments primarily engaged in manufacturing work shirts are classified in Industry 2328, Work Shirts. Knitting mills primarily engaged in manufacturing nightwear are classified in Industry 2254, Knit Underwear Mills, and knit sport shirts in Industry 2253, Knit Outerwear Mills.	108.3	90	85	94.2	94	87
2322	<u>Men's and Boys' Underwear</u> (Men's, Youths', and Boys' Underwear)..... Establishments primarily engaged in manufacturing men's, youths', and boys' underwear cut and sewed from purchased woven or knit fabric. Knitting mills primarily engaged in manufacturing underwear are classified in Industry 2254, Knit Underwear Mills.	9.4	88	28	7.3	95	21
2323	<u>Men's and Boys' Neckwear</u> (Men's, Youths', and Boys' Neckwear)..... Establishments primarily engaged in manufacturing men's, youths', and boys' neckties, scarfs, and mufflers cut and sewed from purchased woven or knit fabric. Knitting mills primarily engaged in manufacturing neckties, scarfs, and mufflers are classified in Industry 2253, Knit Outerwear Mills.	9.5	98	92	10.7	97	91
2325	<u>Men's and Boys' Cloth Hats</u> (Men's, Youths', and Boys' Cloth Hats and Caps). Establishments primarily engaged in manufacturing men's, youths', and boys' hats and caps from purchased knit or woven fabric, such as baseball and other cloth sport hats; chauffeurs', policemen's, and other uniform hats (including women's civilian and military uniform hats and caps) and miscellaneous cloth hats and caps. Establishments primarily engaged in manufacturing fur-felt hats are classified in Industry 2281, Fur-Felt Hats and Hat Bodies; wool-felt hats in Industry 2282, Wool-Felt Hats and Hat Bodies; and straw hats in Industry 2283, Straw Hats. Knitting mills primarily engaged in manufacturing caps are classified in Industry 2253, Knit Outerwear Mills.	8.1	97	87	5.5	96	82
2326	<u>Hat and Cap Materials</u> Establishments primarily engaged in manufacturing hat and cap findings such as cap visors, sweatbands, and trimmings from purchased materials. Establishments primarily engaged in tip printing or stamping are also included in this industry. Establishments primarily engaged in manufacturing hatters' fur are classified in Industry 2284, Hatters' Fur.	.9	99	94	1.1	97	99
2327	<u>Separate Trousers</u> (Men's, Youths', and Boys' Separate Trousers)..... Establishments primarily engaged in manufacturing men's, youths', and boys' separate trousers. Establishments primarily engaged in manufacturing trousers as a part of complete suits are classified in Industry 2311, Men's and Boys' Suits and Coats, and work pants and washable service slacks in Industry 2329, Men's and Boys' Clothing, N.E.C.	51.7	89	74	47.3	86	70
2328	<u>Work Shirts</u> Establishments primarily engaged in manufacturing work shirts. Establishments primarily engaged in manufacturing men's, youths', and boys' dress and sport shirts from purchased fabric are classified in Industry 2321, Men's Dress Shirts and Nightwear. Knitting mills primarily engaged in manufacturing knit sport shirts (polo, T-shirts, etc.) are classified in Industry 2253, Knit Outerwear Mills.	7.0	97	35	12.1	77	67

See footnotes at end of table.

Code	Industry title and description	1954			1947		
		All employ- ees ¹ (1,000)	Industry ratio (percent)		All employ- ees ¹ (1,000)	Industry ratio (percent)	
			Spe- cial- iza- tion ²	Cov- er- age ³		Spe- cial- iza- tion ²	Cov- er- age ³
23	APPAREL AND RELATED PRODUCTS—Continued						
232	Men's and boys' furnishings—Continued						
2329	<u>Men's and Boys' Clothing, N.E.C. (Men's, Youths', and Boys' Work, Sport, and Other Clothing, N.E.C.)</u>	90.8	79	78	74.8	82	76
	Establishments primarily engaged in manufacturing men's, youths', and boys' work, sport, and other clothing not elsewhere classified. Important products of this industry include overalls, work pants, industrial garments, washable service apparel, oiled-fabric work garments, mackinaws, lumberjackets, blanket-lined coats, ski and snow suits, and hunting and riding garments. Establishments primarily engaged in manufacturing separate trousers are classified in Industry 2327, Separate Trousers, and leather and sheep-lined garments in Industry 2386, Leather and Sheep-Lined Clothing. Knitting mills primarily engaged in manufacturing outerwear are classified in Industry 2253, Knit Outerwear Mills.						
233	Women's and misses' outerwear.....	363.9	98	92	313.1	(NA)	(NA)
2331	<u>Blouses (Women's and Misses' Blouses and Waists)</u>	43.0	93	85	32.9	93	88
	Establishments primarily engaged in manufacturing women's, misses', and juniors' blouses, waists, and shirts. Establishments engaged in the manufacture of women's, misses', and juniors' knit outerwear sport shirts (polo, tennis, basque, etc.) from yarns knit in the same establishment are classified in Industry 2253, Knit Outerwear Mills; knit outerwear sport shirts made from purchased knit fabric are classified in Industry 2339, Women's Outerwear, N.E.C.						
2333	<u>Dresses, Unit Price (Women's and Misses' Dresses)</u>	143.3	96	95	133.8	95	97
	Establishments primarily engaged in manufacturing women's and misses' dresses, including ensemble dresses. The garments manufactured by establishments classified in this industry are usually sold by the piece. Establishments primarily engaged in manufacturing aprons, smocks, hooovers, and house dresses, usually sold by the dozen, are classified in Industry 2334, Dresses, Dozen Price. Knitting mills primarily engaged in manufacturing women's, misses', and juniors' knit dresses and suits are classified in Industry 2253, Outerwear Mills.						
2334	<u>Dresses, Dozen Price (Household Apparel)</u>	54.5	94	96	48.6	89	96
	Establishments primarily engaged in manufacturing women's and misses' household apparel, chiefly of washable fabrics. The garments manufactured by establishments classified in this industry are usually sold by the dozen, and include such articles as aprons, smocks, hooovers, house dresses, and nurses' and maids' uniforms. Establishments primarily engaged in manufacturing aprons, smocks, hooovers, etc., of plastic or rubberized fabrics are classified in Industry 2385, Waterproof Outer-garments; aprons, smocks, hooovers, etc., of vulcanized rubber in Industry 3099, Rubber Industries, N.E.C.						
2337	<u>Women's Suits, Coats and Skirts (Women's and Misses' Suits, Coats, Except, Fur Coats, and Skirts)</u>	96.0	94	93	82.7	95	93
	Establishments primarily engaged in manufacturing women's and misses' suits, ensemble suits, skirts, and coats other than fur. Establishments primarily engaged in manufacturing women's and misses' jackets (except leather), fur-trimmed coats and uniform coats, suits, and jackets are also included in Industry 2337. Establishments primarily engaged in manufacturing fur garments are classified in Industry 2371, Fur Goods; and knitting mills primarily engaged in manufacturing outerwear in Industry 2253, Knit Outerwear Mills. Establishments primarily engaged in manufacturing women's and misses' ski, snow, and slack suits, play garments, slacks, and work jackets are classified in Industry 2339, Women's Outerwear, N.E.C.						

See footnotes at end of table.

Code	Industry title and description	1954			1947		
		All employ- ees ¹ (1,000)	Industry ratio (percent)		All employ- ees ¹ (1,000)	Industry ratio (percent)	
			Spe- cial- iza- tion ²	Cov- er- age ³		Spe- cial- iza- tion ²	Cov- er- age ³
23	APPAREL AND RELATED PRODUCTS--Continued						
233	Women's and misses' outerwear--Continued						
2338	Women's Neckwear and Scarfs..... Establishments primarily engaged in manufacturing women's neckwear, scarfs, and dickies cut and sewed from purchased woven or knit fabric. Knitting mills primarily engaged in manufacturing neckwear or scarfs are classified in Industry 2253, Knit Outerwear Mills.	1.7	95	75	2.8	96	96
2339	Women's Outerwear, N.E.C. (Women's and Misses' Outerwear, N.E.C.)..... Establishments primarily engaged in manufacturing women's and misses' outerwear, n.e.c., such as bathing suits, beachwear, slacks, riding habits, ski suits, swimwear, sweaters, and outerwear sport shirts, cut and sewed from purchased woven or knit fabric. Knitting mills primarily engaged in manufacturing outerwear are classified in Industry 2253, Knit Outerwear Mills.	25.4	82	44	12.4	70	33
234	Women's and children's undergarments.....	112.2	96	88	94.6	(NA)	(NA)
2341	Women's and Children's Underwear (Women's, Misses', Children's, and Infants' Underwear and Nightwear)..... Establishments primarily engaged in manufacturing women's, misses, children's, and infants' underwear and nightwear cut and sewed from purchased woven or knit fabric. Knitting mills primarily engaged in manufacturing underwear and nightwear are classified in Industry 2254, Knit Underwear Mills.	73.4	95	85	58.0	95	78
2342	Corsets and Allied Garments..... Establishments primarily engaged in manufacturing corsets and corset accessories, brassieres, girdles, foundation garments, and similar body supporting garments. Establishments engaged in manufacturing surgical and orthopedic appliances are classified in Industry 3842, Surgical Appliances and Supplies.	38.8	96	95	36.6	94	96
235	Millinery.....	20.2	99	98	20.9	99	98
2351	Millinery..... Establishments primarily engaged in manufacturing women's, misses', children's, and infants' trimmed hats from felt or straw hat bodies and purchased millinery materials. Establishments primarily engaged in manufacturing fur-felt and wool-felt hat bodies and finished hats made from hat bodies manufactured in the same establishment are classified in Group 228, Hats, Except Cloth and Millinery; women's uniform hats and caps in Industry 2325, Men's and Boys' Cloth Hats; and millinery braid and trimming in Industry 2396, Trimmings and Art Goods. Establishments producing millinery primarily for direct sale to household consumers through a retail store on the premises of the establishment are classified in Retail Trade.	20.2	99	98	20.9	99	98
236	Children's outerwear.....	77.5	94	83	48.2	(NA)	(NA)
2361	Children's Dresses (Children's and Infants' Dresses)..... Establishments primarily engaged in manufacturing children's and infants' dresses cut and sewed from purchased woven or knit fabric. Other products included in this industry are: children's blouses, blousesettes, waists, and shirts. In addition, establishments primarily engaged in manufacturing these garments in teen-age girls' and girls' sizes are also included in this industry. Knitting mills primarily engaged in manufacturing dresses are classified in Industry 2253, Knit Outerwear Mills.	32.5	95	93	22.5	93	91

See footnotes at end of table.

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			Spe- cial- iza- tion ²	Cov- er- age ³		Spe- cial- iza- tion ²	Cov- er- age ³
23	APPAREL AND RELATED PRODUCTS--Continued						
236	Children's outerwear--Continued						
2363	Children's Coats (Children's and Infants' Coats).....	14.4	91	81	11.0	91	87
	Establishments primarily engaged in manufacturing children's and in- fants' coats, coat-and-legging sets, and snow suits cut and sewed from purchased woven or knit fabric. Also included in this industry are es- tablishments primarily engaged in manufacturing these garments in teen- age girls' and girls' sizes. Knitting mills primarily engaged in manu- facturing outerwear are classified in Industry 2253, Knit Outerwear Mills.						
2369	Children's Outerwear, N.E.C. (Children's and Infants' Outerwear, N.E.C.)...	30.6	78	62	14.8	(NA)	(NA)
	Establishments primarily engaged in manufacturing children's and in- fants' outerwear not elsewhere classified, such as house coats, mid- dies, slacks, beachwear, rompers, sun suits, play suits, bathrobes, and headwear cut and sewed from purchased woven or knit fabric. Also included in this industry are establishments primarily engaged in manu- facturing these garments (except millinery) in teen-age girls' and girls' sizes. Knitting mills primarily engaged in manufacturing outer- wear are classified in Industry 2253, Knit Outerwear Mills.						
237	Fur goods.....	¹ 10.0	99	100	16.2	100	100
2371	Fur Goods.....	¹ 10.0	99	100	16.2	100	100
	Establishments primarily engaged in manufacturing fur coats; and other garments, accessories, and trimmings made of fur. Establishments pri- marily engaged in manufacturing sheep-lined clothing are classified in Industry 2386, Leather and Sheep-Lined Clothing, and those engaged in the dyeing and dressing of furs in Industry 3992, Furs; Dressed and Dyed. Establishments primarily engaged in making and reconditioning fur garments to individual order of the household consumer are classi- fied in Retail Trade.						
238	Miscellaneous apparel.....	64.3	92	86	57.8	89	47
2381	Fabric Dress Gloves (Dress and Semidress Gloves and Mittens, Fabric, Fabric and Leather combined).....	4.5	94	72	5.6	89	47
	Establishments primarily engaged in manufacturing dress and semidress gloves and mittens, cut and sewed from purchased woven or knit fabric, or these materials combined with leather. Knitting mills primarily engaged in manufacturing gloves and mittens are classified in Industry 2255, Knit Glove Mills; establishments primarily engaged in manufac- turing fabric work gloves in Industry 2382, Fabric Work Gloves; leather gloves in Group 315, Leather Gloves; and rubber gloves in Industry 3099, Rubber Industries, N.E.C.						
2382	Fabric Work Gloves (Work Gloves and Mittens, Fabric, Fabric and Leather Combined).....	10.1	95	93	10.9	94	96
	Establishments primarily engaged in manufacturing work gloves and mittens, cut and sewed from purchased woven or knit fabric, or these materials combined with leather. Knitting mills primarily engaged in manufacturing gloves and mittens are classified in Industry 2255, Knit Glove Mills. Establishments primarily engaged in manufacturing dress and semi-dress gloves and mittens are classified in Industry 2381, Fabric Dress Gloves; leather gloves in Group 315, Leather Gloves; rubber gloves in Industry 3099, Rubber Industries, N.E.C.; sport and athletic gloves in Industry 3949, Sporting and Athletic Goods.						

See footnotes at end of table.

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			Spe- cial- iza- tion ²	Cov- er- age ³		Spe- cial- iza- tion ²	Cov- er- age ³
23	APPAREL AND RELATED PRODUCTS—Continued						
238	Miscellaneous apparel—Continued						
2383	Suspenders and Garters (Suspenders, Garters, and Related Products)..... Establishments primarily engaged in manufacturing suspenders, arm bands, garters, hose supporters, and related products. Establishments primarily engaged in manufacturing corsets and allied garments are classified in Industry 2342, Corsets and Allied Garments.	.9	78	60	1.7	74	54
2384	Robes and Dressing Gowns..... Establishments primarily engaged in manufacturing men's and women's bathrobes, lounging robes, dressing gowns, breakfast coats, brunch coats, housecoats, and lounging pajamas. Establishments primarily engaged in manufacturing negligees and bed jackets from purchased fabric are classified in Industry 2341, Women's and Children's Under- wear; and children's and infants' robes, dressing gowns, and kimonos from purchased fabric in Industry 2369, Children's Outerwear, N.E.C.	11.0	93	84	10.9	89	82
2385	Waterproof Outer Garments (Raincoats and Other Waterproof Outer Garments).. Establishments primarily engaged in manufacturing raincoats from pur- chased rubberized fabrics and other waterproof and water repellent fabrics, and other waterproof outer garments made from such material as pliofilm and cellophane. Establishments primarily engaged in manufacturing waterproof outer garments from plastic, including baby pants, aprons, bibs, and bathing and shower caps, are also included in Industry 2385. Establishments primarily engaged in manufacturing oiled-fabric work garments are classified in Industry 2329, Men's and Boys' Clothing, N.E.C., and those manufacturing vulcanized rubber garments and garments made from rubberized fabrics produced in the same establishment are classified in Industry 3099, Rubber Industries, N.E.C.	12.9	89	81	8.6	85	73
2386	Leather and Sheep-Lined Clothing..... Establishments primarily engaged in manufacturing leather and sheep- lined garments. Establishments primarily engaged in manufacturing leather gloves and mittens are classified in Group 315, Leather Gloves, and fur garments in Industry 2371, Fur Goods.	5.4	85	80	4.2	79	80
2387	Belts..... Establishments primarily engaged in manufacturing men's and women's apparel belts, regardless of material.	12.6	92	94	9.2	90	95
2388	Handkerchiefs..... Establishments primarily engaged in manufacturing handkerchiefs, except embroidered. Establishments primarily engaged in manufacturing Schiffli-machine embroidered handkerchiefs are classified in Industry 2397, Schiffli-Machine Embroideries; and embroidered handkerchiefs, except Schiffli-Machine, in Industry 2398, Embroideries, Except Schiffli.	3.5	98	98	4.6	98	95
2389	Apparel, N.E.C..... Establishments primarily engaged in manufacturing apparel, n.e.c., such as academic caps and gowns, vestments, and theatrical costumes.	3.5	90	91	2.2	96	86

See footnotes at end of table.

Code	Industry title and description	1954			1947		
		All employ- ees ¹ (1,000)	Industry ratio (percent)		All employ- ees ¹ (1,000)	Industry ratio (percent)	
			Spe- cial- iza- tion ²	Cov- er- age ³		Spe- cial- iza- tion ²	Cov- er- age ³
23	APPAREL AND RELATED PRODUCTS--Continued						
239	Fabricated textiles, n.e.c.....	134.6	94	77	126.7	(NA)	(NA)
2391	<u>Curtains and Draperies.....</u>	14.0	94	89	8.0	97	90
	Establishments primarily engaged in manufacturing curtains and draperies from purchased fabric. Establishments primarily engaged in manufacturing window curtains and draperies from plastics or fiber glass fabrics are also included in this industry. Establishments primarily engaged in manufacturing lace curtains and draperies are classified in Industry 2292, Lace Goods; shower-bath curtains in Industry 2392, Housefurnishings, N.E.C.; and paper draperies in Industry 2699, Converted Paper Products, N.E.C.						
2392	<u>Housefurnishings, N.E.C. (Housefurnishings, Except Curtains and Draperies).</u>	36.2	91	1259	39.9	93	1287
	Establishments primarily engaged in manufacturing housefurnishings from purchased fabric. Important products of this industry include sheets, pillowcases, napkins, table cloths, comforters, blankets, bedspreads, pillows, laundry bags, mops and dusters, and slip covers. Other products included in this industry are chair covers; cushions (except spring, foam rubber, and carpet); garment bags, except paper; mattress protectors, except rubber; quilts; shower-bath curtains; towels and wash cloths. Establishments primarily engaged in knitting fabrics and manufacturing knit towels and wash cloths are classified in Industry 2259, Knitting Mills, N.E.C. Establishments primarily producing the following items are classified elsewhere: lace bedspreads and table covers in Industry 2292, Lace Goods; spring cushions in Industry 2515, Mattresses and Bedsprings; paper wardrobe and garment bags in Industry 2661, Paper Bags; rubber mattress protectors and foam rubber pillows in Industry 3099, Rubber Industries, N.E.C.; electric bed coverings (including blankets, sheets, and comforters) in Industry 3621, Electrical Appliances; and curtains and draperies in Industry 2391, Curtains and Draperies.						
2393	<u>Textile Bags.....</u>	12.1	84	85	13.9	93	98
	Establishments primarily engaged in manufacturing cotton, burlap, canvas, and other textile bags from purchased fabric. Establishments primarily engaged in manufacturing textile laundry and wardrobe bags are classified in Industry 2392, Housefurnishings, N.E.C. Establishments primarily engaged in reconditioning textile bags in 1954 are excluded from manufacturing but reconditioning activities of manufacturing plants are included.						
2394	<u>Canvas Products.....</u>	13.5	89	86	10.6	91	93
	Establishments primarily engaged in manufacturing awnings, tents, sails, canvas covers, tarpaulins, and canopies from purchased canvas. Other canvas products included in this industry are industrial aprons and painters' drop cloths. Establishments primarily engaged in manufacturing canvas bags are classified in Industry 2393, Textile Bags; rubber-soled canvas shoes, in Industry 3021, Rubber Footwear; and canvas boots, in Industry 3141, Footwear, Except Rubber.						

See footnotes at end of table.

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			Spe- cial- iza- tion ²	Cov- er- age ³		Spe- cial- iza- tion ²	Cov- er- age ³
23	APPAREL AND RELATED PRODUCTS--Continued						
239	Fabricated textiles, n.e.c.--Continued						
2395	<u>Tucking, Pleating and Stitching</u> (Pleating, Stitching, and Tucking for the Trade)..... Establishments primarily engaged in pleating, stitching, and tucking for the trade. Other services for the trade performed by establishments in this industry include appliqueing, buttonhole making, hem-stitching, ruffling, scalloping, and shirring. Establishments primarily engaged in performing similar services for individuals are classified in Service Industries and are excluded from the Census of Manufactures. Establishments primarily engaged in manufacturing trimmings and art needlework are classified in Industry 2396, Trimmings and Art Goods, Schiffli-machine embroideries in Industry 2397, Schiffli-Machine Embroideries and embroideries, except Schiffli-machine, in Industry 2398, Embroideries, Except Schiffli.	6.5	(11)	(11)	5.9	(11)	(11)
2396	<u>Trimmings and Art Goods</u> (Trimmings, Stamped Art Goods, and Art Needlework). Establishments primarily engaged in manufacturing trimmings for millinery and other uses, stamped art goods, and art needlework. Other products included in this industry are: bias binding; automobile and furniture trimmings; and women's and children's apparel findings. Establishments primarily engaged in manufacturing narrow fabric bindings, ribbons, and tapes are classified in Industry 2241, Narrow Fabric Mills; men's hat linings and other hat trimmings in Industry 2326, Hat and Cap Materials.	17.8	97	83	14.5	94	95
2397	<u>Schiffli-Machine Embroideries</u> Establishments primarily engaged in manufacturing Schiffli-machine embroideries and burnt-out laces.	5.7	98	99	5.7	98	96
2398	<u>Embroideries, Except Schiffli</u> (Embroideries, Except Schiffli-Machine)..... Establishments primarily engaged in manufacturing Swiss loom and other machine-made or hand-made embroideries, such as machine-made crocheted embroideries, and Bonnaz and Cornely products. Establishments primarily engaged in manufacturing Schiffli-machine embroideries are classified in Industry 2397, Schiffli-Machine Embroideries; hand-made crochet ware are classified in Industry 2399, Textile Products, N.E.C.	10.8	98	96	9.8	97	96
2399	<u>Textile Products, N.E.C.</u> Establishments primarily engaged in manufacturing fabricated textile products, n.e.c., such as automobile seat covers, banners, flags, and pennants from purchased fabric. Establishments primarily engaged in the sponging, shrinking, burling or mending of cloth for the trade or in employing home workers for hand-knitting or hand-weaving of textile products are also included in this industry. Other textile products included in this industry are: textile badges and insignia; black-board erasers; diapers; hand-made crochet-ware; powder puffs; hand-woven rugs; saddle cloths; and sleeping bags. Establishments primarily engaged in manufacturing machine-made crochet ware are classified in Industry 2398, Embroideries, Except Schiffli.	18.0	87	77	18.3	88	87

See footnotes at end of table.

Code	Industry title and description	1954			1947		
		All employ- ees ¹ (1,000)	Industry ratio (percent)		All employ- ees ¹ (1,000)	Industry ratio (percent)	
			Spe- cial- iza- tion ²	Cov- er- age ³		Spe- cial- iza- tion ²	Cov- er- age ³
24	LUMBER AND WOOD PRODUCTS, EXCEPT FURNITURE This major group includes logging camps engaged in cutting timber and pulpwood, sawmills, veneer mills, lath mills, shingle mills, cooperage-stock mills, planing mills, and plywood mills engaged in producing lumber and wood basic materials; and establishments engaged in manufacturing finished articles made entirely or mainly of wood. Certain types of establishments producing wood products are classified elsewhere. For example, furniture and office and store fixtures are classified in Major Group 25, Furniture and Fixtures; pianos, musical instruments, toys and playground equipment, and caskets and coffins in Major Group 39; Miscellaneous Manufactures. Additional wood products classified outside of this major group are specified in the description of Industry 2499 below. Woodworking in connection with construction, in the nature of re-conditioning and repair, or performed to individual order, is classified in nonmanufacturing industries.						
241	Logging camps and contractors.....	75.5	98	89	(NA)	(NA)	(NA)
2411	<u>Logging Camps and Logging Contractors.....</u> Logging camps and logging contractors engaged in cutting timber and in producing logs, bolts, crotches, burls, stumps, pulpwood, poles, posts, hewn ties, mine timbers, forest-cut fuel wood, wood for chemical distillation, hewn or rough shaped lasts, shuttles, and similar blocks or blanks, and other rough, hewn or riven primary forest or wood raw materials. Independent contractors engaged in estimating, driving, booming, towing, or trucking timber, but who perform no cutting operations, are classified in nonmanufacturing industries. Logging and woods operations conducted in combination with sawmills, pulp mills, or other converting establishments, and not separately reported, are classified in their respective industry groups: namely, with sawmills and planing mills in Industry 2421, Sawmills and Planing Mills, veneer mills in Industry 2422, Veneer Mills, pulp mills in Industry 2611, Pulp Mills, and with charcoal and wood distillation plants in Industries 2861, Hardwood Distillation, and 2862, Softwood Distillation. Establishments primarily engaged in the collection of bark, sap, gum and other forest byproducts are classified in nonmanufacturing industries.	75.5	98	89	(NA)	(NA)	(NA)
242	Lumber and timber basic products.....	341.4	96	81	409.8	(NA)	(NA)
2421	<u>Sawmills and Planing Mills (Full Standard Industrial Classification Title: Sawmills and Planing Mills, General).....</u> Establishments primarily engaged in sawing rough lumber and timbers from logs and bolts, or resawing cants, flitches, or lumber into smaller dimensions; planing mills combined with sawmills; and separately operated planing mills which are engaged in producing surfaced lumber and standard workings or patterns of lumber. Industry 2421 also includes establishments primarily engaged in sawing lath, railroad ties, and box shook from logs or bolts, and establishments primarily engaged in kiln-drying of lumber. Establishments primarily engaged in manufacturing box shook or boxes from purchased lumber are classified in Industry 2444 Wooden Boxes, (Except Cigar Boxes), and sash, doors, window and door frames, and other fabricated millwork from purchased lumber in Industry 2431, Millwork Plants. Logging camps combined with sawmills, when not separately reported, are included in Industry 2421, Sawmills and Planing Mills.	321.2	97	81	383.4	(NA)	(NA)

See footnotes at end of table.

Code	Industry title and description	1954			1947		
		All employ- ees ¹ (1,000)	Industry ratio (percent)		All employ- ees ¹ (1,000)	Industry ratio (percent)	
			Spe- cial- iza- tion ²	Cov- er- age ³		Spe- cial- iza- tion ²	Cov- er- age ³
24	LUMBER AND WOOD PRODUCTS, EXCEPT FURNITURE—Continued						
242	Lumber and timber basic products—Continued						
2422	Veneer Mills..... Establishments primarily engaged in producing all types and grades of veneer including technical, fancy, flat, plywood, and container types. Establishments primarily engaged in the production of veneer which is used in the same establishment for the manufacture of other end products are classified in the end product industries, such as Industry 2432, Plywood Plants, Industry 2441, Fruit and Vegetable Baskets, Industry 2444, Wooden Boxes (Except Cigar Boxes), and Industry 2443, Cigar Boxes.	12.8	93	88	10.5	92	83
2423	Shingle Mills..... Establishments primarily engaged in producing wood shingles, including shake operations.	2.5	97	90	2.4	100	86
2424	Cooperage Stock Mills..... Establishments primarily engaged in producing cooperage stock, including staves, heading, and hoops for tight or slack cooperage, whether produced by sawing or splitting. Establishments primarily engaged in manufacturing barrels and other coopered products from stock produced in the same establishment are classified in Industry 2445, Cooperage.	13.4	96	93	12.3	96	92
2425	Excelsior Mills..... Establishments primarily engaged in manufacturing excelsior, wood-wool, and excelsior pads and wrappers.	1.4	96	93	1.2	100	97
243	Millwork, plywood, and prefabricated structural wood products.....	119.4	93	94	97.4	(NA)	(NA)
2431	Millwork Plants..... Establishments primarily engaged in manufacturing wood sash (including storm sash) windows, doors (including combination screen and storm doors), window and door frames, blinds, mantels, panel work, porch work, stairways, cabinet work to be built in, entrances, prefabricated tanks, and vats, and similar fabricated millwork from purchased lumber. Planing mills primarily engaged in producing millwork are included in this industry, but planing mills primarily producing standard workings or patterns of lumber (dimension stock, surfaced lumber, ceiling, partitions, siding, matched and shiplapped lumber, and flooring), are classified in Industry 2421, Sawmills and Planing Mills.	68.7	90	91	59.8	90	92
2432	Plywood Plants..... Establishments primarily engaged in manufacturing commercial plywood, including technical and industrial grades, from veneer produced in the same establishment or from purchased veneer. Important products of this industry include hardwood plywood, interior and exterior types of softwood plywood, and nonwood face plywood and other plywood type products. Establishments producing plywood which is used in the same establishment in the manufacture of end products such as doors, boxes, and furniture are classified in Industry 2431, Millwork; Industry 2444, Wooden Boxes; Industry Group 251, Household Furniture, respectively.	39.2	93	95	27.5	93	96
2433	Prefabricated Wood Products (Prefabricated Wooden Buildings and Structural Members)..... Establishments primarily engaged in manufacturing prefabricated wooden buildings, ready cut wood buildings or panels, or in producing laminated or fabricated trusses, arches and other structural members of lumber. Establishments primarily engaged in the installation rather than the manufacture of prefabricated building and equipment are excluded from the Census of Manufactures and are classified in Construction Industries.	11.5	99	95	10.1	93	96

Code	Industry title and description	1954			1947		
		All employ- ees ¹ (1,000)	Industry ratio (percent)		All employ- ees ¹ (1,000)	Industry ratio (percent)	
			Spe- cial- iza- tion ²	Cov- er- age ³		Spe- cial- iza- tion ²	Cov- er- age ³
24	LUMBER AND WOOD PRODUCTS, EXCEPT FURNITURE—Continued						
244	Wooden containers.....	52.3	94	88	69.1	(NA)	(NA)
2441	<u>Fruit and Vegetable Baskets</u>	6.7	91	88	9.1	91	88
	Establishments primarily engaged in manufacturing till baskets, berry cups, climax baskets, round stave baskets, vegetable hampers, and splint or market baskets made primarily of veneer and splint for shipping and marketing fruits and vegetables. Establishments primarily engaged in manufacturing rattan and willow ware baskets other than fruit and vegetable baskets are classified in Industry 2442, Rattan and Willow Ware.						
2442	<u>Rattan and Willow Ware</u> (Rattan and Willow Ware, Except Furniture and Fruit and Vegetable Baskets).....	1.3	91	93	1.1	89	93
	Establishments primarily engaged in manufacturing articles of rattan, reed, splint, veneer, and willow, such as laundry hampers, clothes baskets, market baskets (except fruit and vegetable baskets--Industry 2441, Fruit and Vegetable Baskets), and small articles such as trays, coasters, table pads, and willow bottle and demijohn covers. Establishments primarily engaged in manufacturing reed and rattan furniture are classified in Industry 2519, Household Furniture, N.E.C.						
2443	<u>Cigar Boxes</u>	1.1	97	94	1.9	100	85
	Establishments primarily engaged in manufacturing cigar boxes of wood, or partly of wood, in which cigars are packed for sale. Establishments primarily engaged in manufacturing paper cigar boxes are classified in Industry 2671, Paperboard Boxes.						
2444	<u>Wooden Boxes</u> (Wooden Boxes, Except Cigar Boxes).....	39.5	93	85	47.8	96	85
	Establishments primarily engaged in manufacturing wooden boxes (nailed or wirebound, plain or fabric-covered), crates, cases, wooden shipping drums, and carrier trays. Establishments primarily engaged in manufacturing box shoo and wooden trunk slats from purchased lumber are also included in this industry, but establishments primarily engaged in manufacturing box shoo from logs or bolts are classified in Industry 2421, Sawmills and Planing Mills. Establishments primarily engaged in manufacturing fruit and vegetable baskets are classified in Industry 2441, Fruit and Vegetable Baskets, cigar boxes in Industry 2443, Cigar Boxes; and wooden outer burial boxes in Industry 3988, Morticians' Goods. Establishments primarily engaged in salvaging or reconditioning wooden boxes are excluded from manufacturing and classified in Trade Industries.						
2445	<u>Cooperage</u>	13.7	97	99	9.2	96	97
	Establishments primarily engaged in manufacturing barrels, kegs, tubs, hogsheads, pails, and other containers made of staves, except fruit and vegetable baskets (Industry 2441). Establishments primarily engaged in recoopering barrels and kegs are also included in Industry 2445, but establishments primarily engaged in manufacturing cooperage stock are classified in Industry 2424, Cooperage Stock Mills. Establishments primarily engaged in manufacturing tobacco hogsheads are classified in Industry 2444, Wooden Boxes.						
249	Miscellaneous wood products.....	57.4	93	92	65.5	(NA)	(NA)
2491	<u>Wood Preserving</u>	12.1	97	99	16.2	(D)	(D)
	Establishments primarily engaged in treating wood (sawed or planed in other establishments) with creosote or other preservatives to prevent decay and to protect against fire and insects. Establishments primarily engaged in manufacturing wood products which they may also treat with preservatives are not included in this industry.						

See footnotes at end of table.

Code	Industry title and description	1954			1947		
		All employees ¹ (1,000)	Industry ratio (percent)		All employees ¹ (1,000)	Industry ratio (percent)	
			Specialization ²	Coverage ³		Specialization ²	Coverage ³
24,	LUMBER AND WOOD PRODUCTS, EXCEPT FURNITURE--Continued						
249	Miscellaneous wood products--Continued						
2492	<u>Lasts and Related Products.....</u> Establishments primarily engaged in manufacturing lasts for boots and shoes, last sole patterns, shoe trees and stretchers, and display forms for boots and shoes, regardless of the material used.	1.5	99	95	2.0	(D)	(D)
2493	<u>Mirror and Picture Frames (Mirror Frames and Picture Frames).....</u> Establishments primarily engaged in manufacturing finished picture-frame moldings; in manufacturing frames for mirrors, pictures, photographs, and medallions; and in framing pictures for the trade. Establishments primarily engaged in manufacturing mirror glass are classified in Industry 3231, Glass Products Made of Purchased Glass. Establishments primarily engaged in the framing of pictures to individual order are classified in Trade Industries.	5.2	89	93	3.8	89	92
2499	<u>Wood Products, N.E.C.....</u> Establishments primarily engaged in turning and shaping wood and manufacturing miscellaneous wood products not elsewhere classified, such as wooden abacuses, bakers' wooden equipment, battery separators, carvings, clothespins, clothwinding reels, cross arms, dishes and other household and kitchen woodenware, dowels and dowel pins, flagpoles, wood flour, furniture turnings, wooden handles, garment hangers, ladders, letters, marquetry, oars, pegs, pencil slats, potato mashers, rolling pins, scaffolds, stepladders, tailors' pressing blocks, toilet seats, toothpicks, trays, inlaid veneer work, washboards, (wooden and part wooden), wood pallets and skids, curtain stretchers, fences and gates, pump rods, rulers, signboards, and snow fence. Establishments primarily engaged in manufacturing the following turned and shaped wood products and miscellaneous wood products are classified outside Major Group 24: Product Description Industry Classification Wood blocks for engravers 3555--Printing Trades Machinery Wood costume jewelry 3961--Costume Jewelry Wood heels and heel blocks 3131--Footwear Cut Stock Wood patterns, industrial 3594--Industrial Patterns and Molds Wooden shoes 3141--Footwear, Except Rubber Wooden toys, exc. dolls and children's vehicles 3941--Games and Toys, N.E.C. Wooden wagons and other children's vehicles 3943--Children's Vehicles	38.6	91	87	43.5	87	94
25	FURNITURE AND FIXTURES This major group includes establishments engaged in manufacturing household, office, public-building, professional, and restaurant furniture, office and store fixtures, and window and door screens and shades, and venetian blinds, regardless of the materials used. Establishments primarily engaged in manufacturing special furniture for use in beauty-shops and barber shops are classified in Industry 3991, Beauty and Barber-Shop Equipment. Establishments primarily engaged in the production of millwork are classified in Industry 2431, and woodworking to individual order or in the nature of reconditioning and repair in nonmanufacturing industries.						

See footnotes at end of table.

Code	Industry title and description	1954			1947		
		All employ- ees ¹ (1,000)	Industry ratio (percent)		All employ- ees ¹ (1,000)	Industry ratio (percent)	
			Spe- cial- iza- tion ²	Cov- er- age ³		Spe- cial- iza- tion ²	Cov- er- age ³
25	FURNITURE AND FIXTURES—Continued						
251	Household furniture.....	243.9	96	95	228.4	(NA)	(NA)
2511	<u>Wood Furniture, Not Upholstered</u> (Wood Household Furniture, Except Up- holstered)..... Establishments primarily engaged in manufacturing wood household furniture commonly used in dwellings. This industry also includes wooden cases and cabinets for radios and sewing machines, kitchen cabinets, camp furniture, nursery furniture, headboards for hollywood beds, and smoking stands. Establishments primarily engaged in manufacturing upholstered furniture or wood frames for upholstered furniture are classified in Industry 2512, Household Furniture, Upholstered, and reed and rattan furniture in Industry 2519, Household Furniture, N.E.C. Plants primarily engaged in renovating or re- finishing furniture and plants selling household furniture to house- hold consumers through a retail store on the manufacturing premises are included in Trade Industries.	124.9	94	93	132.1	94	94
2512	<u>Household Furniture, Upholstered</u> (Wood household Furniture, Upholstered).. Establishments primarily engaged in manufacturing upholstered furniture on wood frames, or manufacturing wood frames for upholstered furniture. Establishments primarily engaged in manufacturing dual purpose sleep furniture such as studio couches, convertible sofas, jackknife sofa beds, and chair beds, are classified in Industry 2512, regardless of the materials used in the frame. Shops primarily engaged in reupholstering furniture, or upholstering frames to individual order are classified in Trade Industries.	56.0	94	85	44.8	92	83
2514	<u>Metal House Furniture</u> (Metal Household Furniture)..... Establishments primarily engaged in manufacturing metal household furni- ture of a type commonly used in dwellings, whether padded, upholstered, or plain. Establishments primarily engaged in manufacturing dual pur- pose furniture, such as studio couches, sofa beds, and chair-beds are classified in Industry 2512, Household Furniture, Upholstered, regard- less of the materials used in the frame.	29.6	87	83	19.7	83	73
2515	<u>Mattresses and Bedsprings</u> Establishments primarily engaged in manufacturing mattresses (including foam-rubber and box-spring mattresses); assembled wire springs (fabric, coil, or box) for use on beds, couches, and cots; and spring cushions. Establishments primarily engaged in manufacturing individual wire springs are classified in Industry 3489; Wirework, N.E.C., padding and upholstery filling in Industry 2293, Padding and Upholstery Filling; quilted mattress protectors in Industry 2392, Housefurnishings, N.E.C.; and latex foam rubber mattress cores in Industry 3099, Rubber In- dustries, N.E.C. Establishments primarily engaged in repairing, ren- ovating, etc., mattresses and bedsprings are classified in Service Industries.	32.1	77	91	30.3	76	93
2519	<u>Household Furniture, N.E.C.</u> Establishments primarily engaged in manufacturing reed, rattan, fiber, willow, and other wicker furniture, whether padded or plain; and those manufacturing other household furniture (except wood and metal), such as plastic radio, phonograph, and TV cabinets, and wood framed paper- board storage cabinets and wardrobes.	1.3	86	59	1.7	83	71
252	Office furniture.....	21.7	84	87	20.8	(NA)	(NA)
2521	<u>Wood Office Furniture</u> Establishments primarily engaged in manufacturing wood office furniture, whether padded, upholstered, or plain.	5.5	86	86	6.5	92	80

See footnotes at end of table.

Code	Industry title and description	1954			1947		
		All employ- ees ¹ (1,000)	Industry ratio (percent)		All employ- ees ¹ (1,000)	Industry ratio (percent)	
			Spe- cial- iza- tion ²	Cov- er- age ³		Spe- cial- iza- tion ²	Cov- er- age ³
25	FURNITURE AND FIXTURES—Continued						
252	Office furniture--Continued						
2522	<u>Metal Office Furniture</u> Establishments primarily engaged in manufacturing metal office furniture whether padded, upholstered, or plain. Establishments primarily engaged in manufacturing safes and vaults are classified in Industry 3492, Safes and Vaults.	16.1	84	87	14.3	89	92
253	Public-building and professional furniture.....	19.6	84	81	15.4	(NA)	(NA)
2531	<u>Public-Building and Related Furniture</u> Establishments primarily engaged in manufacturing furniture for schools, theaters, assembly halls, churches, and libraries, and in manufacturing seats for public conveyances. Establishments primarily engaged in manufacturing stone furniture are classified in Industry 3281, Cut Stone and Stone Products, and concrete furniture in Industry 3271, Concrete Products.	14.0	83	86	10.2	68	80
2532	<u>Professional Furniture</u> Establishments primarily engaged in manufacturing furniture especially designed for laboratory, hospital, and other professional uses, such as laboratory work tables, operating tables, and hospital beds.	5.5	81	68	5.2	62	67
254	Partitions and fixtures.....	33.1	88	87	27.8	88	89
2541	<u>Partitions and Fixtures</u> (Partitions, Shelving, Lockers, and Office and Store Fixtures)..... Establishments primarily engaged in manufacturing from wood, metal, or other materials, prefabricated partitions, shelving, cabinets, show and display cases, office and store fixtures, and related fabricated products including bar fixtures, telephone booths, butchers' fixtures, lockers, display racks and stands, and store and lunch-room window-backs. Establishments primarily engaged in manufacturing refrigerated cabinets, show cases, and display cases, are classified in Industry 3585, Refrigeration Machinery, and safes and vaults in Industry 3492, Safes and Vaults.	33.1	88	87	27.8	88	89
256	Screens, shades and blinds.....	18.2	86	84	19.7	(NA)	(NA)
2561	<u>Window and Door Screens</u> (Window and Door Screens and Weatherstrip)..... Establishments primarily engaged in manufacturing window and door screens and weatherstrip, regardless of the materials used. Establishments primarily engaged in manufacturing wire screening are classified in Industry 3489, Wirework, N.E.C. Storm (and combination screen and storm) sash and doors are classified in Industry 2431, Millwork Plants, or in Industry 3442, Metal Doors, Sash, and Trim, depending on the principal material used in their manufacture.	4.4	73	64	4.2	65	61
2562	<u>Window Shades</u> Establishments primarily engaged in manufacturing complete window shades, window-shade rollers and fittings, and curtain rods and fixtures, regardless of the materials used. Establishments primarily engaged in manufacturing metal awnings and canopies are classified in Industry 3444, Sheet-Metal Work.	4.4	85	78	5.7	73	79
2563	<u>Venetian Blinds</u> Establishments primarily engaged in manufacturing venetian blinds, regardless of materials used. Establishments primarily engaged in manufacturing porch shades (except canvas shades and awnings classified in Industry 2394, Canvas Products) are also included in this industry.	9.4	85	93	9.7	96	92

See footnotes at end of table.

Code	Industry title and description	1954			1947		
		All employ- ees ¹ (1,000)	Industry ratio (percent)		All employ- ees ¹ (1,000)	Industry ratio (percent)	
			Spe- cial- iza- tion ²	Cov- er- age ³		Spe- cial- iza- tion ²	Cov- er- age ³
25	FURNITURE AND FIXTURES—Continued						
259	Miscellaneous furniture and fixtures.....	4.2	75	74	4.2	(NA)	(NA)
2591	<u>Restaurant Furniture</u>	3.4	72	78	3.4	87	69
	Establishments primarily engaged in manufacturing furniture especially designed for use in restaurants.						
2599	<u>Furniture and Fixtures, N.E.C.</u>.....	.8	83	61	.9	91	56
	Establishments primarily engaged in manufacturing furniture and fixtures which are not classified in any of the several furniture industries.						
26	PULP, PAPER AND PRODUCTS						
	This major group includes the manufacture of pulp primarily from wood, and from rags and other fibers; the conversion of these pulps into paper or board; and the manufacture of paper and paperboard into converted products such as coated paper, paper bags, paper boxes, and envelopes. Certain types of converted paper products are classified in other major groups, such as abrasive paper in Industry 3291, Abrasive Products, carbon paper in Industry 3955, Carbon Paper and Inked Ribbons and photosensitized and blueprint paper in Industry 3861, Photographic Equipment.						
261	Pulp, paper, and paperboard.....	216.3	99	100	197.9	99	100
2611	<u>Pulp Mills</u>	57.7	99	100	50.3	99	100
	Establishments primarily engaged in the manufacture of pulp made from pulpwood (including slabs, chips and mill wastes), and other fibrous materials such as linters, waste paper, straw, and rags.						
2612	<u>Paper and Paperboard Mills</u> (Paper and Paperboard Mills, Except Building-Paper and Building-Board Mills).....	142.2	99	100	134.2	6100	6100
	Establishments primarily engaged in manufacturing paper and paperboard, except building board and building paper, from woodpulp and other fibers. Industry 2612 also includes establishments reducing waste paper, linters, straw, and other non-wood fibers to pulp as part of a continuous process producing paper and paperboard.						
2613	<u>Building Paper and Board Mills</u> (Building-Paper and Building-Board Mills)...	16.4	98	97	13.4		
	Establishments primarily engaged in manufacturing building paper and building board, from woodpulp and other fibrous materials. Industry 2613 also includes establishments reducing waste paper, linters, straw, and other non-wood fibers to pulp as part of a continuous process producing building paper and building board.						
264	Paper coating and glazing.....	27.7	85	86	22.3	87	92
2641	<u>Paper Coating and Glazing</u>	27.7	85	86	22.3	87	92
	Establishments primarily engaged in manufacturing coated and glazed paper from purchased paper. Important products of this industry include coated-book, waxed, wax-laminated, and gummed paper (including gummed-labels, and paper and cloth tape), waterproof wrapping paper, fly paper, cloth-lined paper, and pressure sensitive tapes (except surgical) with paper, cloth, or plastic backing. Establishments primarily engaged in manufacturing photographic and blueprint paper are classified in Industry 3861, Photographic Equipment; carbon paper, in Industry 3955, Carbon Paper and Inked Ribbons; and rubber tapes, including friction in Industry 3099, Rubber Industries, N.E.C.						

See footnotes at end of table.

Code	Industry title and description	1954			1947		
		All employ- ees ¹ (1,000)	Industry ratio (percent)		All employ- ees ¹ (1,000)	Industry ratio (percent)	
			Spe- cial- iza- tion ²	Cov- er- age ³		Spe- cial- iza- tion ²	Cov- er- age ³
26	PULP, PAPER AND PRODUCTS—Continued						
265	Envelopes.....	15.9	96	92	13.8	92	95
2651	<u>Envelopes</u> Establishments primarily engaged in manufacturing envelopes of any description from purchased paper and other materials. Establishments primarily engaged in manufacturing papeteries (boxed stationery) are classified in Industry 2699, Paper and Board Products, N.E.C.	15.9	96	92	13.8	92	95
266	Paper bags.....	33.3	91	88	22.2	96	86
2661	<u>Paper Bags</u> Establishments primarily engaged in manufacturing paper bags from purchased paper and similar materials. Important products of this industry include kraft paper bags for groceries, paper shipping or heavy duty paper sacks and multiwall bags for cement, flour, coal, etc., and glassine bags, cellophane bags, and miscellaneous merchandise bags. Establishments primarily engaged in manufacturing cotton or other textile bags from purchased fabrics are classified in Industry 2393, Textile Bags.	33.3	91	88	22.2	96	86
267	Paperboard containers and boxes.....	145.1	96	98	119.0	97	98
2671	<u>Paperboard Boxes</u> (Paperboard Boxes, Folded, Set-Up and Corrugated)..... Establishments primarily engaged in manufacturing paperboard containers or boxes from purchased paperboard or fiber stock. Important products of this industry include folding boxes; setup boxes, corrugated and solid fiberboard boxes; decorated, lithographed, lacquered, and fancy covered paperboard boxes; cigarette and confectionery boxes, and vulcanized fiber boxes. Establishments primarily engaged in manufacturing sanitary food containers are classified in Industry 2699, Paper and Board Products, N.E.C.	133.0	96	98	109.7	97	98
2674	<u>Fiber Cans, Tubes, and Drums</u> (Fiber Cans, Tubes, Drums, and Similar Products)..... Establishments primarily engaged in manufacturing from purchased materials, fiber cans, cones, cores, mailing cases, ribbon-blocks, spools, tubes, drums, and similar products with or without metal ends. These products may be manufactured from purchased paperboard or vulcanized fiber.	12.1	97	87	9.2	97	93
269	Pulp goods and miscellaneous paper and board products.....	92.0	91	89	78.9	(NA)	(NA)
2691	<u>Die-Cut Paper and Board</u> (Die-Cut Paper and Paperboard; and Cardboard)..... Establishments primarily engaged in die-cutting purchased paper and paperboard, and in manufacturing cardboard by laminating, lining, and surface-coating paperboard. Important products of this industry include paper bottle-caps and tops; index, Jacquard, library and other cut cards; cut-outs; photograph folders, mats, and mounts; stencil cards for addressing machines; cardboard panels and pasted chipboard and newsboard; and tabulating and time recording cards. Establishments primarily engaged in laminating building board or building paper from purchased paper or board are classified in Industry 2699, Paper and Board Products, N.E.C.	12.3	88	82	9.3	(NA)	(NA)
2693	<u>Wallpaper</u> Establishments primarily engaged in designing, printing and embossing paper for interior walls and ceilings. The paper stock used by this industry is called "hanging paper" and is produced by paper mills classified in Industry 2612, Paper and Paperboard Mills. All kinds of wallpaper including machine, screen, and handprinted are included in Industry 2693, Wallpaper.	3.6	99	98	5.5	98	100

See footnotes at end of table.

Code	Industry title and description	1954			1947		
		All employ- ees ¹ (1,000)	Industry ratio (percent)		All employ- ees ¹ (1,000)	Industry ratio (percent)	
			Spe- cial- iza- tion ²	Cov- er- age ³		Spe- cial- iza- tion ²	Cov- er- age ³
26	PULP, PAPER AND PRODUCTS—Continued						
269	Pulp goods and miscellaneous paper and board products—Continued						
2694	<u>Pulp Goods, Pressed and Molded</u>	2.9	100	93	1.7	95	86
	Establishments primarily engaged in manufacturing, from purchased material, pressed or molded pulp goods, such as pulp plates and utensils, and papier-mache articles other than statuary and art goods (Industry 3298, Statuary and Art Goods). Establishments primarily engaged in stamping plates and utensils from paper are classified in Industry 2699, Paper and Board Products, N.E.C.						
2699	<u>Paper and Board Products, N.E.C.</u>	73.2	90	89	62.4	86	86
	Establishments primarily engaged in manufacturing from purchased paper, miscellaneous converted paper products, n.e.c., such as stationery, papeteries, crepe paper and crepe paper products, paper napkins, doilies, and towels, playing cards, drinking straws, sanitary food containers, printed and unprinted paper patterns, eggcase fillers, laminated building boards and papers, cups, plates, utensils, toilet paper, confetti, and paper novelties.						
27	PRINTING AND PUBLISHING INDUSTRIES						
	This major group includes establishments engaged in publishing, printing, (letterpress, lithographing gravure, screen, etc.), publishing, and printing; bookbinding, paper ruling, and manufacturing blankbooks and looseleaf devices; and those performing services for the printing trades such as typesetting, photo engraving, and electrotyping. This group includes all publishers regardless of whether or not they do their own printing. Establishments primarily engaged in printing on textiles are classified in Major Group 22 Textile Mill Products. News syndicates are classified in Service Industries.						
271	Newspapers.....	281.8	95	100	234.4	94	100
2711	<u>Newspapers</u>	281.8	95	100	234.4	94	100
	Establishments engaged in publishing newspapers, or in publishing and printing newspapers. These establishments carry on the various operations necessary for issuing newspapers, including the gathering of news, and the preparation of editorials, and advertisements, but may or may not perform their own printing. Job printing is frequently carried on by establishments engaged in publishing and printing newspapers, but even though the job printing may be of major importance, such establishments are included in this industry. Establishments not engaged in publishing newspapers but which print or lithograph newspapers for publishers, are classified in Industry 2751, Commercial Printing or Industry 2761, Lithographing. Establishments primarily engaged in publishing shopping news are classified in Industry 2741, Miscellaneous Publishing. News Syndicates are classified in Service Industries.						
272	Periodicals.....	62.4	95	97	69.0	94	98
2721	<u>Periodicals</u>	62.4	95	97	69.0	94	98
	Establishments primarily engaged in publishing periodicals, or in preparing, publishing, and printing periodicals. These establishments carry on the various operations necessary for issuing periodicals, but may or may not perform their own printing. Establishments not engaged in publishing periodicals, but which print or lithograph periodicals for publishers, are classified in Industry 2751, Commercial Printing, or 2761, Lithographing, depending on the primary printing process employed.						

See footnotes at end of table.

Code	Industry title and description	1954			1947		
		All employ- ees ¹ (1,000)	Industry ratio (percent)		All employ- ees ¹ (1,000)	Industry ratio (percent)	
			Spe- cial- iza- tion ²	Cov- er- age ³		Spe- cial- iza- tion ²	Cov- er- age ³
27	PRINTING AND PUBLISHING INDUSTRIES—Continued						
273	Books.....	57.4	89	80	52.0	(NA)	(NA)
2731	Books: Publishing and Printing (Books: Publishing, Publishing and Printing)..... Establishments primarily engaged in publishing only, or in publishing and printing books and pamphlets. Establishments primarily engaged in printing and binding (but not publishing) books and pamphlets are classified in Industry 2732, Book Printing. Establishments primarily engaged in binding books published or printed in the same establishment are classified in Industry 2731, but establishments primarily engaged in binding books printed elsewhere are classified in Industry 2781, Bookbinding. Industry 2731 also includes data on book publishing activities obtained from non profit organizations which operate sep- arate book publishing establishments.	34.7	91	90	39.9	92	93
2732	Book Printing..... Establishments primarily engaged in printing only or in printing and binding books and pamphlets, but not engaged in publishing. Establish- ments primarily engaged in publishing, or in publishing and printing books and pamphlets are classified in Industry 2731, Books; Publishing and Printing. Establishments engaged in both printing and binding books, but primarily binding books printed elsewhere are classified in Industry 2781, Bookbinding. Establishments classified in Industry 2732 are identical in character to some establishments primarily engaged in commercial printing (Industry 2751) and in lithographing (Industry 2761). The distinction is that all the establishments classified in Industry 2732 derive the greater part of their revenue from printing books and pamphlets, while such operations are secondary activities for establishments classified in Industries 2751, Commercial Printing and 2761, Lithographing.	22.7	76	55	12.0	77	44
274	Miscellaneous Publishing.....	18.4	85	82	12.0	93	78
2741	Miscellaneous Publishing..... Establishments primarily engaged in publishing such products as maps, atlases, sheet music, directories, almanacs; catalogs; globe covers; racing forms; and shopping news or engaged in miscellaneous publishing activities, n.e.c., whether or not engaged in printing. Establishments primarily engaged in printing such products and not engaged in pub- lishing are classified in Industry 2751, Commercial Printing, or 2761, Lithographing, depending on the primary printing process employed. Establishments primarily engaged in publishing greeting cards are classi- fied in Industry 2771, Greeting Cards. Establishments primarily engaged in offering financial, credit, or other business services and which may publish directories as part of this service are not included in this industry but are classified in Service Industries.	18.4	85	82	12.0	93	78

See footnotes at end of table.

Code	Industry title and description	1954			1947		
		All employ- ees ¹ (1,000)	Industry ratio (percent)		All employ- ees ¹ (1,000)	Industry ratio (percent)	
			Spe- cial- iza- tion ²	Cov- er- age ³		Spe- cial- iza- tion ²	Cov- er- age ³
27	PRINTING AND PUBLISHING INDUSTRIES—Continued						
275	Commercial printing.....	200.2	85	86	191.7	86	86
2751	<u>Commercial Printing</u>	200.2	85	86	191.7	86	86
	Establishments primarily engaged in commercial or job printing. This industry includes general printing shops as well as shops specializing in printing newspapers and periodicals for others, and those which specialize in gravure, rotogravure, and rotary photogravure printing. Industry 2751 also includes establishments primarily engaged in making gravure plates for others and those which print by screen processes (except decalcomanias classified in Industry 2761, Lithographing, and textile printing in Industry 2261, Finishing Textiles, Except Wool). In addition to printing on paper, Industry 2751 includes establishments primarily engaged in printing on wood (e.g. pencils), on metal, plastics, etc. Letterpress, gravure, and screen process printing are the principal processes employed by establishments classified in Industry 2751.						
	Establishments primarily engaged in printing books (without publishing) are classified in Industry 2732, Book Printing; greeting cards in Industry 2771, Greeting Cards; printing from lithographic plates in Industry 2761, Lithographing; and embossing on books in Industry 2789, Miscellaneous Bookbinding Work, but those establishments primarily engaged in embossing on paper are classified in Industry 2751, Commercial Printing.						
276	Lithographing.....	77.7	82	79	52.4	77	77
2761	<u>Lithographing</u>	77.7	82	79	52.4	77	77
	Establishments primarily engaged in preparing lithographic stones or metal lithographic plates, and in printing from such media. Establishments primarily engaged in making lithographic plates for others and those which print decalcomanias (by all processes) are also included in Industry 2761. The greater part of the work in this industry is performed on a job or custom basis, but in some cases lithographed calendars, business forms, maps, posters, decalcomanias, etc., are made for sale. Offset printing, photo-offset printing, and photolithographing are also included in this industry.						
	Establishments primarily engaged in lithographing books and pamphlets (without publishing) are classified in Industry 2732, Book Printing, and greeting cards in Industry 2771, Greeting Cards.						
277	Greeting cards.....	21.3	93	89	18.1	92	87
2771	<u>Greeting Cards</u>	21.3	93	89	18.1	92	87
	Establishments primarily engaged in designing only, manufacturing only, or designing and manufacturing greeting cards for all occasions. These products may be printed, lithographed, etched, or otherwise processed.						
278	Bookbinding and related industries.....	37.3	89	85	42.6	(NA)	(NA)
2781	<u>Bookbinding</u>	17.2	91	86	22.2	84	87
	Establishments primarily engaged in edition, trade, job, and library bookbinding. Establishments primarily engaged in binding books printed elsewhere are classified in this industry, but those primarily binding books printed in the same establishment are classified in Group 273, Books.						
2782	<u>Blankbooks and Paper Ruling</u> (Blankbook Making and Paper Ruling).....	8.6	76	66	8.8	85	66
	Establishments primarily engaged in manufacturing blankbooks such as ledgers, account books, and composition books; receipt pads; check books; inventory and similar blankbooks; sales books; albums, and scrapbooks (including leather bound), and in ruling paper. Establishments primarily engaged in manufacturing loose-leaf notebooks and loose-leaf notebook forms are classified in Industry 2783, Loose-Leaf Binders and Devices.						

See footnotes at end of table.

Code	Industry title and description	1954			1947		
		All employ- ees ¹ (1,000)	Industry ratio (percent)		All employ- ees ¹ (1,000)	Industry ratio (percent)	
			Spe- cial- iza- tion ²	Cov- er- age ³		Spe- cial- iza- tion ²	Cov- er- age ³
27	PRINTING AND PUBLISHING INDUSTRIES—Continued						
278	Bookbinding and related industries—Continued						
2783	<u>Loose-Leaf Binders and Devices</u> (Library and Loose-Leaf Binder Manufacturing) Establishments primarily engaged in manufacturing loose-leaf devices, library binders, and loose-leaf forms and fillers, including loose-leaf notebooks.	8.2	74	82	8.1	75	83
2789	<u>Miscellaneous Bookbinding Work</u> (Miscellaneous Work Related to Bookbinding). Establishments primarily engaged in book or paper bronzing, gilding, and edging; map and sample mounting; beveling, deckling, embossing of books (except embossing on paper, classified in Industry 2751, Commercial Printing), gold stamping, indexing of books, and paper cutting (except die-cutting, Industry 2691, Die-Cut Paper and Board); and other services related to bookbinding.	3.3	84	83	3.4	87	79
279	Printing trades service industries.....	47.8	96	91	43.1	(NA)	(NA)
2791	<u>Typesetting</u> Establishments primarily engaged in machine and hand typesetting for the trade, and in advertising typography.	14.6	94	87	11.5	94	87
2792	<u>Engraving and Plate Printing</u> Establishments primarily engaged in engraving and etching steel and copper plates; in using these plates to print stationery, visiting and other cards, invitations, announcements, security certificates, maps, etc., and in making wood cuts for use in printing illustrations, posters, etc. Establishments primarily engaged in engraving on textile printing rollers and those engraving or etching on rubber printing plates are also classified in Industry 2792. Engraving for purposes other than printing is classified in Industry 3467, Engraving on Metal.	7.5	93	79	7.7	92	80
2793	<u>Photoengraving</u> Establishments primarily engaged in preparing photoengraved plates (half-tones and line-cuts). These establishments do not, as a rule, print from the plates which they make, but prepare them for use by others.	17.7	95	93	16.7	96	95
2794	<u>Electrotyping and Stereotyping</u> Establishments primarily engaged in preparing electrotpe and stereotype plates. These establishments do not, as a rule, print from the plates which they make, but prepare them for use by others.	8.0	89	89	7.2	92	87
28	CHEMICALS AND PRODUCTS This major group includes establishments producing basic chemicals, and establishments manufacturing products by predominantly chemical pro- cesses. Establishments classified in this major group manufacture three classes of products: (1) basic chemicals such as acids, alkalies, salts, and organic chemicals; (2) chemical products to be used in further manu- facture such as synthetic fibers, plastics materials, crude animal and vegetable oils, dry colors, and pigments; and (3) finished chemical prod- ucts to be used for ultimate consumption such as drugs, cosmetics, and soaps; or to be used as materials or supplies in other industries such as paints, fertilizers, and explosives. The mining of natural rock salt is classified in Mining Industries. Establishments primarily engaged in manu- facturing nonferrous metals and high percentage ferro-alloys are classified in Major Group 33, Primary Metal Industries, silicon carbide in Industry 3291, Abrasive Products, baking powder, other leavening compounds, and starches in Major Group 20, Food and Kindred Products, and embalming fluids and artists' colors in Major Group 39, Miscellaneous Manufactures. Estab- lishments primarily engaged in packaging, repackaging, and bottling of purchased chemical products are classified in Trade Industries.						

See footnotes at end of table.

Code	Industry title and description	1954			1947		
		All employ- ees ¹ (1,000)	Industry ratio (percent)		All employ- ees ¹ (1,000)	Industry ratio (percent)	
			Spe- cial- iza- tion ²	Cov- er- age ³		Spe- cial- iza- tion ²	Cov- er- age ³
28	CHEMICALS AND PRODUCTS—Continued						
281	Industrial inorganic chemicals.....	121.3	89	83	62.5	(NA)	(NA)
2811	<u>Sulfuric Acid.....</u> Establishments primarily engaged in producing sulfuric acid by the contact or chamber process.	3.8	78	66	3.1	(⁶)	(⁶)
2812	<u>Alkalies and Chlorine.....</u> Establishments primarily engaged in manufacturing sodium hydroxide (caustic soda), potassium hydroxide (caustic potash), soda ash, potas- sium carbonate, sodium bicarbonate, sal soda and chlorine. Establish- ments primarily engaged in manufacturing ammonium compounds or alkali metals are classified in Industry 2819, Industrial Inorganic Chemicals, N.E.C., and plants primarily engaged in mining natural potassium, or sodium alkalies are classified in Mineral Industry 1474, Potash, Soda and Borate Minerals.	20.4	76	84	19.9	81	85
2819	<u>Inorganic Chemicals, N.E.C. (Industrial Inorganic Chemicals, N.E.C.).....</u> Establishments primarily engaged in manufacturing industrial inorganic chemicals which are not elsewhere classified. Important products of this industry include inorganic acids such as boric, hydrochloric, hydrofluoric, nitric, and phosphoric; inorganic salts of sodium, potassium, aluminum, calcium, chromium, magnesium, mercury, nickel, silver, and tin; inorganic compounds such as alums, calcium carbide, sodium silicate, ammonium compounds, and anhydrous ammonia; and elemental bromine and iodine. Establishments primarily engaged in man- ufacturing inorganic paint pigments are classified in Industry 2852, Inorganic Color Pigments and medicinal grades of inorganic chemicals in Industry 2833, Medicinal Chemicals. Establishments primarily en- gaged in mining, milling or otherwise preparing natural potassium, boron or sodium compounds (other than common salt) are not classified in manufacturing industries but instead are included in Mineral In- dustry 1474, Potash, Soda and Borate Minerals.	97.0	87	78	39.5	(⁶)	(⁶)
282	Industrial organic chemicals.....	245.5	91	90	203.9	(NA)	(NA)
2821	<u>Cyclic (Coal-Tar) Crudes.....</u> Establishments primarily engaged in manufacturing crudes from coal-tar. Such crudes include (1) light-oil products such as benzene and toluene; (2) coal-tar acids such as creosols and cresylic acid; and (3) products of medium and heavy oil such as creosote oil, naphthalene, anthracene, and their higher homologues, and tar. Other products manufactured from coal tar included in this industry are: xylene, solvent naphtha, road tar, and pitch of tar. Establishments primarily engaged in manu- facturing coal-tar crudes in byproduct coke ovens are classified in Industry 2932, Byproduct Coke Ovens, and petroleum refineries which produce such products in Industry 2911, Petroleum Refining.	1.9	82	72	2.0	85	78
2822	<u>Intermediates and Organic Colors (Intermediates, Dyes, Color Lakes and Toners).....</u> Establishments primarily engaged in manufacturing cyclic intermediates, dyes, color lakes, and toners. Important products of this industry in- clude (1) derivatives of benzene, toluene, phenol, aniline, nitro- benzene and other cyclic intermediates; (2) classified and unclassified dyes such as azo and anthraquinone, and food, drug, and cosmetic dyes; (3) lakes and extended colors, toners, or full strength organic colors and reduced toners. Establishments primarily engaged in manufacturing inorganic color pigments are classified in Industry 2852, Inorganic Color Pigments; natural dyeing materials in Industry 2865, Natural Tanning and Dyeing Materials; and natural food colors in Industry 2095, Flavorings.	32.7	64	66	33.6	(⁶)	(⁶)

See footnotes at end of table.

Code	Industry title and description	1954			1947		
		All employ- ees ¹ (1,000)	Industry ratio (percent)		All employ- ees ¹ (1,000)	Industry ratio (percent)	
			Spe- cial- iza- tion ²	Cov- er- age ³		Spe- cial- iza- tion ²	Cov- er- age ³
28	CHEMICALS AND PRODUCTS—Continued						
282	Industrial organic chemicals—Continued						
2823	Plastics Materials and Elastomers, Except Synthetic Rubber.....	41.1	90	575	28.6	92	577
	Establishments primarily engaged in manufacturing plastics materials in the form of sheets, rods, tubes, granules, powders, or liquids for use in further manufacturing. Important products of this industry include: (1) condensation plastics, such as alkyd, phenolic, and urea resins; (2) polymerization plastics, except fibers, such as ployvinyl alcohol, ester, halide, and copolymer resins; polyhexamethylene-diamine adipamide resins; (3) protein plastics such as casein, soybean, and coffee bean; (4) cellulose plastics, regenerated cellulose sheets, and vulcanized fiber; (5) carbohydrate plastics; and (6) synthetic elastomers such as plasticized ployvinyl alcohol, polyvinyl chloride, polyisobutylene elastomers and other similar products. Establishments primarily engaged in manufacturing rayon and other synthetic fibers are classified in Industry 2825, Synthetic Fibers; synthetic rubber in Industry 2824, Synthetic Rubber; artificial leather in Industry 2295, Coated Fabrics, Except Rubberized; and sensitized and nonsensitized photographic film in Industry 3861, Photographic Equipment. Establishments primarily engaged in manufacturing unsupported film from purchased resins are classified in Industry 3971, Plastics Products, N.E.C.						
2824	Synthetic Rubber.....	8.5	98	90	7.7	96	89
	Establishments primarily engaged in manufacturing synthetic rubber by polymerization or copolymerization. Important products of this industry include butadiene styrene type (GR-S and Buna S), butadiene-acrylonitrile type GR-N), and all other vulcanizable elastomers. An elastomer for the purpose of this classification is a rubber-like material which will stretch 150 percent or more and return with force to approximately its original shape and position. Establishments primarily engaged in manufacturing non vulcanizable elastomer materials are classified in Industry 2823, Plastics Materials and elastomers (except synthetic rubber), and synthetic organic rubber-processing chemicals (accelerators and anti-oxidants) are classified in Industry 2829, Industrial Organic Chemicals, N.E.C.						
2825	Synthetic Fibers.....	61.1	96	99	69.7	97	98
	Establishments primarily engaged in manufacturing rayon, nylon, and other synthetic fibers to be used as materials for further manufacturing. Important products of this industry include fibers of cellulose acetate, regenerated cellulose, polyvinyl ester polyvinylidene chloride, vinyl chloride, polymeric amide, and protein. Textile mills primarily engaged in throwing, spinning, and weaving rayon, nylon, or other synthetic fibers are classified in Major Group 22, Textile Mill Products and glass fiber, stock and roving, are classified in Industry 3229, Pressed and Blown Glassware, N.E.C.						
2826	Explosives.....	32.5	98	91	10.4	87	99
	Establishments primarily engaged in manufacturing explosives such as sporting powder, blasting powder, high explosives, nitrated carbohydrates, safety fuses, and blasting and detonating caps. Establishments primarily engaged in manufacturing ammunition for small arms are classified in Industry 1961, Small Arms Ammunition; and fireworks and pyrotechnics such as flashlight bombs, flares (all kinds) railroad torpedoes, and fuses (highway, marine and railroad) in Industry 3985, Fireworks and Pyrotechnics. Establishments primarily engaged in shooting wells and also engaged in manufacturing nitroglycerine are included in Mineral Industries.						

See footnotes at end of table.

Code	Industry title and description	1954			1947		
		All employ- ees ¹ (1,000)	Industry ratio (percent)		All employ- ees ¹ (1,000)	Industry ratio (percent)	
			Spe- cial- iza- tion ²	Cov- er- age ³		Spe- cial- iza- tion ²	Cov- er- age ³
28	CHEMICALS AND PRODUCTS—Continued						
282	Industrial organic chemicals—Continued						
2829	<u>Industrial Organic Chemicals, N.E.C.</u>	67.5	77	80	51.9	(6)	(6)
	Establishments primarily engaged in manufacturing industrial organic chemicals, n.e.c. Important products of this industry include:(1) noncyclic organic chemicals such as acetic, chloracetic, adipic, formic, oxalic and tartaric acids, and their metallic salts; chloral, formaldehyde and methylamine; (2) solvents such as amyl, butyl, and ethyl alcohols; methanol; ethylene glycol; anyl, butyl, and ethyl acetates; ethyl ether, ethylene glycol ether, and diethylene glycol ether; acetone, carbon disulfide, and carbon tetrachloride; (3) synthetic perfume and flavoring materials such as coumarin, methyl salicylate, saccharin, citral, citronellal, synthetic geraniol, ionone, terpeneol, and synthetic vanillin; (4) rubber chemicals such as accelerators and anti-oxidants; (5) plasticizers such as synthetic camphor, phthalates and tricresyl and triphenyl phosphates; (6) synthetic tanning materials; and (7) chemical-warfare gases. Establishments engaged in manufacturing organic medicinal chemicals are classified in Group 283, Drugs and Medicines, soap and glycerin in Industry 2841, Soap and Glycerin, essential oils in Industry 2892, Essential Oils; wood distillation products, naval stores and natural dyeing and tanning materials in Group 286, Gum and Wood Chemicals; and insecticides, fungicides, and other agricultural pesticidal preparations in Industry 2897, Insecticides and Fungicides. Distilleries engaged in manufacturing grain alcohol for beverage purposes are classified in Industry 2085, Distilled Liquor, Except Brandy.						
283	Drugs and medicines.....	92.1	94	94	81.5	(NA)	(NA)
2831	<u>Biological Products</u>	4.0	86	65	3.0	87	57
	Establishments primarily engaged in the production of viruses, serums, toxins, and analogous products such as allergenic extracts and normal serums and plasmas for human or veterinary use. Establishments primarily engaged in manufacturing bacteriological media are also included in this industry. Excluded are the activities of the American Red Cross, hospitals and other institutions which are important collectors of blood and producers of blood products.						
2833	<u>Medicinal Chemicals, including Botanicals</u> (Includes S.I.C. Industries 2832, Botanical Products, and 2833, Inorganic and Organic Medicinal Chemicals).	11.5	59	59	13.1	73	74
	Establishments primarily engaged in manufacturing bulk organic and inorganic medicinal chemicals and their derivatives as well as establishments engaged in grading, grinding and milling botanical drugs and herbs. Establishments primarily engaged in manufacturing endocrine products, manufacturing or isolating basic vitamins, isolating active medicinal principals such as alkaloids from botanical drugs and herbs and manufacturing agar-agar (except culture media) are also included in this industry. Establishments primarily engaged in manufacturing reagent and chemically pure grades (other than United States Pharmacopoeia or National Formulary) or inorganic and organic chemicals are classified in Industries 2819, Inorganic Chemicals, N.E.C., and 2829, Organic Chemicals, N.E.C., respectively.						

See footnotes at end of table.

Code	Industry title and description	1954			1947		
		All employ- ees ¹ (1,000)	Industry ratio (percent)		All employ- ees ¹ (1,000)	Industry ratio (percent)	
			Spe- cial- iza- tion ²	Cov- er- age ³		Spe- cial- iza- tion ²	Cov- er- age ³
28*	CHEMICALS AND PRODUCTS—Continued						
283	Drugs and medicines—Continued						
2834	<u>Pharmaceutical Preparations</u>	76.6	91	94	65.4	91	98
	Establishments primarily engaged in fabricating drugs and medicines in pharmaceutical preparations such as ampules, tablets, capsules, ointments, solutions, and suspensions, for human and veterinary use, including vitamin preparations and Galenicals such as fluid extracts and tinctures. Products of this industry consist of two important lines: (a) pharmaceutical preparations promoted primarily to the dental, medical, or veterinary professions, and (b) pharmaceutical preparations promoted primarily to the public. Establishments compounding drugs and medicines and selling these "over the counter" are classified in Trade Industries and thus are excluded from the Census of Manufactures.						
284	Soap, glycerin, cleaning, polishing, and related products.....	46.2	87	64	44.9	(NA)	(NA)
2841	<u>Soap and Glycerin</u>	25.8	84	74	27.5	81	91
	Establishments primarily engaged in manufacturing soap in any form (including shampoos and shaving creams) and in manufacturing crude and refined glycerin. Establishments primarily engaged in manufacturing washing powders and compounds and not engaged in manufacturing soap (soap converters) are classified in Industry 2842, Cleaning and Polishing Products; shampoos and shaving creams from purchased soap, in Industry 2893, Toilet Preparations; and metal soap pads in Industry 3291, Abrasive Products.						
2842	<u>Cleaning and Polishing Products</u>	18.0	80	⁵ 45	15.4	70	⁵ 52
	Establishments primarily engaged in manufacturing cleansers, washing powders and washing compounds and which are not engaged in manufacturing soap. Establishments primarily engaged in manufacturing dry-cleaning preparations, metal, automobile, stove, shoe, and other polishes; paint and varnish removers; waxes, stains, finishes, and dressings for fabricated leather and other materials; burnishing inks, and related products are also included in this industry. Establishments primarily engaged in manufacturing soap are classified in Industry 2841, Soap and Glycerin; bluing, laundry soaps, water softeners and other chemical specialties in Industry 2899, Chemical Products, n.e.c., and metal soap pads in Industry 3291, Abrasive Products.						
2843	<u>Sulfonated Oils and Assistants</u>	2.4	74	78	2.0	77	76
	Establishments primarily engaged in producing sulfonated oils and fats and related products such as tanning assistants, softeners, and soluble oils and greases. Establishments primarily engaged in manufacturing petroleum sulfonates and "other assistants" such as egg yolks, wetting agent preparations, waterproofing emulsions and mordants, are also included in this industry. Establishments primarily engaged in manufacturing sodium and potassium bichromate are classified in Industry 2819, Industrial Inorganic Chemicals, N.E.C.; tannic acid and synthetic organic tanning materials in Industry 2829, Industrial Organic Chemicals, N.E.C.; leather dressings and finishes for fabricated leather in Industry 2842, Cleaning and Polishing Products; natural tanning extracts and materials in Industry 2865, Natural Tanning and Dyeing Materials; and sizes and specialty textile chemicals in Industry 2899, Chemical Products, N.E.C.						

See footnotes at end of table.

Code	Industry title and description	1954			1947		
		All employ- ees ¹ (1,000)	Industry ratio (percent)		All employ- ees ¹ (1,000)	Industry ratio (percent)	
			Spe- cial- iza- tion ²	Cov- er- age ³		Spe- cial- iza- tion ²	Cov- er- age ³
28	CHEMICALS AND PRODUCTS—Continued						
285	Paints, varnishes, pigments and allied products.....	70.0	95	95	69.0	(NA)	(NA)
2851	<u>Paints and Varnishes</u> (Paints, Varnishes, Lacquers, Japans, and Enamels).... Establishments primarily engaged in manufacturing paints (in paste form or mixed ready to use), varnishes, lacquers, japans, enamels, and shellac. Important products of this industry include water paints and calcimines (dry and paste); paints in paste form (white, or red lead in oil, zinc oxide in oil, colors in oil or japan); ready-mixed and semi-paste paints (paints in oil, undercoatings and primers, wall paints, stains, and bituminous paints); varnishes and varnish stains; clear and pigmented lacquers; enamels; japan; shellac and dopes.	56.6	95	97	53.4	94	96
2852	<u>Inorganic Color Pigments</u> Establishments primarily engaged in manufacturing dry colors and inorganic color pigments. Important products of this industry include black pigments such as black iron oxide, white pigments, such as white lead and blanc fixe, and titanium pigments; color pigments, such as ultramarine and vermilion; and chrome, iron, and other dry colors.	12.2	88	88	14.3	88	84
2853	<u>Whiting and Fillers</u> (Whiting, Putty Wood Fillers, and Allied Paint Products)..... Establishments primarily engaged in manufacturing whiting from lime stone or chalk; whiting ground in oil (putty); and wood fillers and allied paint products such as caulking and glazing compounds. Establishments primarily engaged in manufacturing products like spackle and similar plasters are classified in Industry 3272, Gypsum Products.	1.2	89	47	1.3	81	53
286	Gum and wood chemicals.....	7.3	76	98	8.5	(NA)	(NA)
2861	<u>Hardwood Distillation</u> Establishments primarily engaged in the destructive distillation of hardwood resulting in the production of charcoal and pyroligneous acid or raw liquor. Such establishments may be engaged in further distillation and washing processes resulting in the production of tars, oils, acids, and alcohols, such as hardwood pitch, wood creosote, natural acetic acid, wood oils, calcium acetate, ethyl acetate, methanol, and methyl acetone. Establishments primarily engaged in manufacturing synthetic acetic acid and methanol are classified in Industry 2829, Organic Chemicals, N.E.C.; and establishments primarily engaged in producing activated charcoal are classified in Industry 2819, Inorganic Chemicals, N.E.C.	1.6	91	100	1.9	94	96
2862	<u>Softwood Distillation</u> Establishments primarily engaged in softwood distillation, resulting in the production of wood naval stores either by the steam-and-solvent process or by the destructive distillation process. Important products of this industry include wood turpentine, wood rosin, pine oil, pitch, tar, tar oils, charcoal, and wood creosote. This industry also includes establishments primarily engaged in manufacturing charcoal from softwood and sawdust in charcoal kilns, and pits, which do not recover the distillation products. Establishments primarily engaged in manufacturing turpentine and rosin by distillation of pine gum are classified in Industry 2863, Gum Naval Stores. Pulp mills producing sulfate wood naval stores (sulfate wood turpentine and tall oil), as byproducts of the production of pulp by the sulfate process are classified in Industry 2611, Pulp Mills.	4.4	68	98	4.6	83	99

See footnotes at end of table.

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		All employ- ees ¹ (1,000)	Industry ratio (percent)		All employ- ees ¹ (1,000)	Industry ratio (percent)	
			Spe- cial- iza- tion ²	Cov- er- age ³		Spe- cial- iza- tion ²	Cov- er- age ³
28	CHEMICALS AND PRODUCTS—Continued						
286*	Gum and wood chemicals—Continued						
2863	Gum Naval Stores..... Establishments primarily engaged in manufacturing turpentine and rosin by the distillation of pine gum. Establishments primarily engaged in manufacturing turpentine and rosin by wood distillation are classified in Industry 2862, Softwood Distillation, and those engaged in the gathering of pine gum are classified in the Forestry Industries.	.5	88	95	.6	98	99
2865	Tanning and Dyeing Materials (Natural Tanning and Dyeing Materials)..... Establishments primarily engaged in manufacturing solid and liquid tanning extracts from wood, bark, and other vegetable materials, as well as establishments primarily engaged in manufacturing natural dyeing materials from wood, bark, and other vegetable and animal materials. Establishments primarily engaged in manufacturing synthetic dyeing materials are classified in Industry 2822, Intermediates and Organic Colors. Synthetic tanning materials are classified in Industry 2829, Organic Chemical, N.E.C., chromium compounds in Industry 2819, Inorganic Chemicals, N.E.C., and leather assistants and finishes in Industry 2843, Sulfonated Oils and Assistants.	.7	83	92	1.4	88	78
287	Fertilizers.....	¹ 31.8	96	97	32.0	98	95
2871	Fertilizers (Fertilizers, Manufacturing and Mixing)..... Establishments primarily engaged in manufacturing mixed fertilizers (mixtures containing nitrogen, phosphoric acid (P ₂ O ₅) or potash), from one or more fertilizer materials produced in the same establishment. Sulfuric acid plants operated in conjunction with fertilizer plants and separately reported are classified in Industry 2811, Sulfuric Acid. Establishments primarily engaged in manufacturing fertilizer materials, such as muriate and sulfate of potash, or nitrogenous compounds, (such as ammonium sulfate and ammonium nitrate), but which are not engaged in manufacturing mixed fertilizers, are classified in Industry 2819, Inorganic Chemicals, N.E.C. Establishments primarily engaged in manufacturing mixed fertilizers from purchased fertilizer materials are classified in Industry 2872, Fertilizers, Mixing Only; and establishments primarily engaged in mixing, milling or otherwise preparing natural potassium, boron, or sodium compounds (other than common salt) are classified in Mineral Industry 1474, Potash, Soda, and Borate Minerals. Rendering plants manufacturing tankage, meat scraps, bone meals, and dried blood for fertilizer, are classified in Industry 2886, Grease and Tallow, and plants primarily engaged in manufacturing inoculants for legumes in Industry 2899, Miscellaneous Chemical Products. Municipal sewage disposal facilities producing activated sewage sludge are not included as manufacturing plants.	¹ 19.7	96	⁵ 60	20.4	92	⁵ 60
2872	Fertilizers, Mixing Only..... Establishments primarily engaged in mixing fertilizers from purchased fertilizer materials. Establishments primarily engaged in manufacturing mixed fertilizers from one or more fertilizer materials produced in the same establishment are classified in Industry 2871, Fertilizers.	¹ 12.0	95	⁵ 44	11.6	98	⁵ 47

See footnotes at end of table.

Code	Industry title and description	1954			1947		
		All employ- ees ¹ (1,000)	Industry ratio (percent)		All employ- ees ¹ (1,000)	Industry ratio (percent)	
			Spe- cial- iza- tion ²	Cov- er- age ³		Spe- cial- iza- tion ²	Cov- er- age ³
28	CHEMICALS AND PRODUCTS—Continued						
288	Vegetable and animal oils.....	40.0	91	88	43.3	(NA)	(NA)
2881	Cottonseed Oil Mills.....	¹ 13.7	96	93	14.4	90	90
	Establishments primarily engaged in manufacturing cottonseed oil and byproduct cake, meal, and linters. Establishments primarily engaged in refining cottonseed oil into edible cooking oils are classified in Industry 2092, Shortening and Cooking Oils, or Industry 2093, Margarine.						
2882	Linseed Oil Mills.....	¹ 1.3	94	90	1.6	77	87
	Establishments primarily engaged in manufacturing linseed oil and byproduct cake and meal. Plants primarily engaged in processing linseed oil (boiled, blown, or chemically modified) are also classified in Industry 2882.						
2883	Soybean Oil Mills.....	¹ 6.9	88	96	6.5	96	80
	Establishments primarily engaged in manufacturing soybean oil and byproduct cake and meal. Establishments primarily engaged in refining soybean oil into edible cooking oils are classified in Industry 2092, Shortening and Cooking Oils, or Industry 2093, Margarine.						
2884	Vegetable Oil Mills, Not Elsewhere Classified.....	¹ 2.5	58	80	5.0	80	89
	Establishments primarily engaged in manufacturing vegetable oils such as tung oil, castor oil, palm kernel oil, peanut oil, coconut oil, and other vegetable oils, n.e.c., and byproduct cake and meal. Establishments primarily engaged in refining vegetable oils into edible cooking oils are classified in Industry 2092, Shortening and Cooking Oils, and Industry 2093, Margarine, and those refining these oils for medicinal purposes in Industry 2833, Medicinal Chemicals. Establishments primarily engaged in shelling peanuts are excluded from manufacturing and classified in Trade Industries.						
2886	Grease and Tallow.....	11.5	88	⁵ 55	12.4	90	⁵ 52
	Establishments primarily engaged in rendering inedible grease and tallow from animal fat, bones, and meat scraps. Plants classified in this industry usually render grease and tallow from secondary sources, such as materials from restaurants and butcher shops, and from dead stock. Tankage, meat scraps and bonemeal for feed or fertilizer are important byproducts of the rendering process. Establishments primarily engaged in manufacturing lard and other edible animal fats are classified in Major Group 20, Food and Kindred Products, and those primarily producing processed tankage (digested inert organic nitrogenous waste materials such as felt, wool, hair, and feathers), and activated sewage sludge are classified in Industry 2871, Fertilizers.						
2887	Fatty Acids.....	¹ 1.9	68	73	1.3	86	76
	Establishments primarily engaged in manufacturing fatty acids such as stearic acid, oleic acid, fish and marine fatty acids, coconut-type fatty acids, and other unsaturated fatty acids fractionated from vegetable and animal oils and fats. Establishments primarily engaged in manufacturing low rosin fatty acids are classified in Industry 2611, Pulp Mills, and synthetic organic fatty acids in Industry 2829, Organic Chemicals, N.E.C.						
2889	Animal Oils, N.E.C.....	¹ 2.3	89	¹³ 66	2.2	94	(¹³)
	Establishments primarily engaged in manufacturing fish oils, marine animal oils and other animal oils, n.e.c. Establishments primarily engaged in refining these oils for medicinal purposes are classified in Industry 2833, Medicinal Chemicals.						

See footnotes at end of table.

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			Spe- cial- iza- tion ²	Cov- er- age ³		Spe- cial- iza- tion ²	Cov- er- age ³
28	CHEMICALS AND PRODUCTS--Continued						
289	Miscellaneous chemical products.....	85.4	90	79	81.0	(NA)	(NA)
2891	<u>Printing Ink</u>	7.6	90	95	6.0	92	98
	Establishments primarily engaged in manufacturing printing ink, gold and bronze inks, and lithographic ink. Establishments primarily engaged in manufacturing writing and stamp pad inks are classified in Industry 2899, Chemical Products, N.E.C.; and varnishes for printers' inks in Industry 2851, Paints and Varnishes.						
2892	<u>Essential Oils</u>.....	.5	83	67	1.2	71	92
	Establishments primarily engaged in distilling, expressing, and refining natural essential oils. Included in this industry are such products as anise oil, citronella oils, eucalyptus oil, lemon oil, orange oil, peppermint oil and wintergreen oil. Establishments primarily engaged in manufacturing synthetic perfume and flavoring materials are classified in Industry 2829, Industrial Organic Chemicals, N.E.C., and blending and compounding perfume bases and concentrates in Industry 2893, Toilet Preparations.						
2893	<u>Toilet Preparations (Perfume, Cosmetics, and other Toilet Preparations)</u>	24.8	91	⁵ 77	27.2	84	⁵ 72
	Establishments primarily engaged in manufacturing perfumes, cosmetics, and other toilet preparations such as toilet water, face powder, rouge, lipstick, personal deodorants, washes and lotions; hair dyes, tonics, dressings, and shampoos; bath salts, manicure preparations, tooth paste, and tooth powder. This industry also includes establishments primarily engaged in manufacturing shampoos and shaving preparations from purchased soap. Establishments primarily engaged in manufacturing synthetic perfume and flavoring materials are classified in Industry 2829, Industrial Organic Chemicals, N.E.C.; and soap, and soap products prepared in soap kettles located at the same plant, in Industry 2841, Soap and Glycerin.						
2894	<u>Glue and Gelatin</u>	6.8	87	67	7.9	82	76
	Establishments primarily engaged in manufacturing (1) industrial and household adhesives, glues, and cements from vegetable or animal materials including purchased casein and synthetic resins; and (2) edible, technical, photographic, or pharmaceutical gelatins from animal materials. Establishments primarily engaged in manufacturing rubber cement are classified in Industry 3099, Rubber Industries, N.E.C., dessert preparations with gelatin base in Industry 2099, Miscellaneous Food Preparations, N.E.C., vegetable gelatin or agar-agar in Industry 2832, Botanical Products; and dental glue and cements in Industry 3843, Dental Equipment and Supplies.						
2895	<u>Carbon Black (Bone Black, Carbon Black, and Lamp Black)</u>	3.4	100	98	3.2	100	97
	Establishments primarily engaged in manufacturing bone black, carbon black (channel and furnace black), and lamp black. Establishments primarily engaged in manufacturing activated carbons are classified in Industry 2819, Industrial Inorganic Chemicals, N.E.C., and charcoals in Industries 2861 and 2862, Softwood and Hardwood Distillation.						

See footnotes at end of table.

Code	Industry title and description	1954			1947		
		All employ- ees ¹ (1,000)	Industry ratio (percent)		All employ- ees ¹ (1,000)	Industry ratio (percent)	
			Spe- cial- iza- tion ²	Cov- er- age ³		Spe- cial- iza- tion ²	Cov- er- age ³
28	CHEMICALS AND PRODUCTS—Continued						
289	Miscellaneous chemical products—Continued						
2896	<u>Compressed and Liquefied Gases.....</u> Establishments primarily engaged in manufacturing gases for sale in compressed, liquid, and solid form, such as acetylene, carbon dioxide (dry ice), helium, nitrous oxide, refrigerant gases (except ammonia), and oxygen. Establishments primarily engaged in manufacturing ammonia, chlorine, and sulfur dioxide are classified in Group 281, Industrial Inorganic Chemicals. Natural gasoline plants engaged in the production of gases in compressed and liquefied form are classified in Mining Industries, and petroleum refineries producing hydrocarbon gases in Industry 2911, Petroleum Refining. Establishments primarily engaged in the shipment of purchased gases whether received in gaseous or liquid form, are excluded from manufacturing and classified in Trade Industries.	10.4	99	84	9.0	100	84
2897	<u>Insecticides and Fungicides.....</u> Establishments primarily engaged in manufacturing inorganic insecticides such as copper, calcium, and lead arsenates, lime-sulfur, sulfur-dust, Paris green, and calcium and sodium arsenite; organic insecticides such as rotenone, pyrethrum, and nicotine-bearing insecticides; and miscellaneous insecticides such as organic thiocyanates, DDT, xanthone, and similar products; and fungicides such as copper, sulfur, and mercury-containing fungicides. Other products included in this industry are intermediate natural products used in making agricultural preparations, such as ground rotenone or pyrethrum extract. Establishments primarily engaged in manufacturing household insecticides (including rodenticides, plant fumigants, weed killers, soil conditioners and fumigants, and animal dips) are classified in Industry 2899, Chemical Products, N.E.C., while plants primarily engaged in producing synthetic organic chemicals and inorganic compounds such as white arsenic or copper sulfate used for agricultural poisons are classified in Industry 2829, Industrial Organic Chemicals, N.E.C., and Industry 2819, Industrial Inorganic Chemicals, N.E.C., respectively.	6.5	84	82	4.1	87	68
2898	<u>Salt.....</u> Establishments primarily engaged in manufacturing edible salt from rock salt and from natural or artificial brines. Establishments engaged in salt mining are excluded from Manufacturing and classified in Mineral Industries.	4.0	96	97	4.8	100	98
2899	<u>Chemical Products, N.E.C. (Chemicals and Chemical Products, N.E.C.).....</u> Establishments primarily engaged in manufacturing miscellaneous chemical products, n.e.c., such as bluing, laundry soaps, mucilage, writing and stamp pad inks and dextrine sizes; agricultural industrial, and household disinfectants and deodorants; household insecticides and repellents such as fly sprays, rat, ant, and roach poisons and moth repellents and industrial compounds, such as boiler and insulating compounds, metal, oil, and water-treating compounds, water-proofing compounds, and chemical supplies for foundries. Such specialties containing animal, vegetable or mineral oil bases, and hydraulic brake fluids; dielectric oils; rust preventatives; or cutting, grinding, or drawing compounds or paste, are classified in Major Group 29, Products of Petroleum and Coal.	21.4	81	70	17.6	75	64
29	PETROLEUM AND COAL PRODUCTS This major group includes establishments refining crude petroleum and manufacturing coke and coke-oven products, paving and roofing materials, and other products made from petroleum and coal. Establishments manufacturing gas (water or coke-oven) and distributing gas to consumers are classified in public utility industries, and establishments primarily engaged in producing crude petroleum, natural gas, natural gasoline and cycle condensates are classified in Mining Industries.						

See footnotes at end of table.

Code	Industry title and description	1954			1947		
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			Spe- cial- iza- tion ²	Cov- er- age ³		Spe- cial- iza- tion ²	Cov- er- age ³
29	PETROLEUM AND COAL PRODUCTS—Continued						
291	Petroleum refining.....	153.1	99	98	145.8	99	97
2911	<u>Petroleum Refining</u> Establishments primarily engaged in producing gasoline, fuel oils, lubricants, illuminating oils, kerosene, petroleum waxes, liquefied gases, asphalt, unfinished oils and other finished petroleum products from crude petroleum and its fractionation in petroleum refineries. Establishments primarily engaged in re-refining or reclaiming used oils (crankcase draining) by a distillation process are also included in this industry. Refineries engaged in blending and compounding lubricants are included in Industry 2911 but establishments primarily engaged in blending and compounding lubricants from purchased materials are classified in Industry 2992, Lubricants, N.E.C. Establishments engaged in producing natural gasoline or cycle condensates from natural gas are classified in Mineral Industries and petroleum bulk stations or distribution terminals are classified in Wholesale Trade and activities relating to pipe-line and other long distance transportation facilities are classified in Transportation Industries.	153.1	99	98	145.8	99	97
293	Coke and byproducts.....	32.5	100	100	32.8	100	100
2931	<u>Beehive Coke Ovens</u> Establishments primarily engaged in producing coke in beehive ovens. Coke produced in "byproduct" coke ovens is classified in Industry 2932, Byproduct Coke Ovens. Coke ovens owned and operated by public utilities are classified as public utilities, and are excluded from the scope of manufactures.	.6	100	⁵ 1	3.1	100	⁵ 9
2932	<u>Byproduct Coke Ovens</u> Establishments primarily engaged in manufacturing coke, coal gas, tar, and other products such as ammonium sulfate and liquor, crude light oil, and naphthalene in "byproduct" coke ovens. Establishments primarily engaged in the production of coke in beehive ovens are classified in Industry 2931, Beehive Coke Ovens. Establishments operated in conjunction with utilities manufacturing or distributing gas are classified as utilities and excluded from the scope of manufactures.	31.9	100	⁵ 99	29.7	100	⁵ 92
295	Paving and roofing materials.....	20.1	93	95	19.3	(NA)	(NA)
2951	<u>Paving Mixtures and Blocks</u> Establishments primarily engaged in manufacturing asphalt and tar paving mixtures and in manufacturing paving blocks made of asphalt, creosoted wood, and various compositions of asphalt or tar with other materials. Plants primarily engaged in producing emulsified asphalt, unless made in petroleum refineries, are also included. Establishments primarily engaged in manufacturing brick, concrete, granite, and stone paving blocks are classified in Major Group 32, Stone, Clay and Glass Products. General contractors constructing roads, streets, etc., and producing asphalt tar paving mixtures are classified in Construction Industries.	4.4	97	94	2.8	99	88
2952	<u>Roofing Felts and Coatings</u> Establishments primarily engaged in manufacturing asphalt and other saturated roofing felts in roll or shingle form, either smooth or faced with grit, and in manufacturing roofing cements and coatings, asphalt sidings, asphalt saturated fabrics, mastic roofing composition, and asphalt board products. Establishments primarily engaged in manufacturing paint are classified in Industry 2851, Paints and Varnishes; asphalted felt-base floor coverings in Industry 2274, Hard-Surface Floor Coverings; asphalt and tar paving mixtures and blocks in Industry 2951, Paving Mixtures and Blocks; and asphalt floor tile and asbestos-cement shingles and clapboard in Industry 3292, Asbestos Products.	15.7	91	94	16.5	95	95

See footnotes at end of table.

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			Spe- cial- iza- tion ²	Cov- er- age ³		Spe- cial- iza- tion ²	Cov- er- age ³
29	PETROLEUM AND COAL PRODUCTS—Continued						
299	Miscellaneous petroleum and coal products.....	10.2	89	22	9.7	(NA)	(NA)
2992	<u>Lubricants, N.E.C.</u> Establishments primarily engaged in blending and compounding lubri- cating oils and greases from purchased mineral, animal, and vegetable materials. Important products of this industry include hydraulic fluids, quenching and cutting oils, corrosion inhibitors, oil treat- ing compounds, and liquid rust preventatives. Petroleum refineries engaged in the production of lubricating oils and greases from petroleum products are classified in Industry 2911, Petroleum Refining,	8.2	87	⁵ 18	8.0	89	⁵ 19
2999	<u>Petroleum and Coal Products, N.E.C.</u> Establishments primarily engaged in manufacturing fuel briquets, boulets, and packaged fuel from anthracite culm, bituminous slack, charcoal, coke screenings, sawdust or other materials usually mixed with tar or other binders; and in manufacturing powdered fuel. Other products included in this industry are calcined petroleum coke, asphaltic protective coatings, petroleum drying oils, and petroleum and coal products not classified in other industries of Major Group 29.	2.0	94	89	1.7	100	100
30	RUBBER PRODUCTS This major group includes establishments manufacturing from natural or synthetic rubber, gutta percha, balata, or gutta siak, all kinds of rubber products such as tires, rubber footwear, rubber heels and soles, mechanical rubber goods, and rubber sundries. This group also includes establishments manufacturing reclaimed rubber or rebuilt and retreaded rubber tires. Automobile tire repair shops engaged in the recapping and the retreading of automobile tires are classified in Service Industries, however, those primarily rebuilding and retreading tires for the trade or for wholesale sale are included in Major Group 30. The manufacture of elastic webbing is classified in Major Group 22, Textile Mill Products; products made of elastic webbing and garments made from rubberized fabrics in Major Group 23, Apparel and Related Products and synthetic rubber in Industry 2824, Synthetic Rubber.						
301	Tires and inner tubes.....	92.7	88	99	115.7	90	95
3011	<u>Tires and Inner Tubes</u> Establishments primarily engaged in manufacturing pneumatic casings, inner tubes, and solid and cushion tires (including seconds) for all types or vehicles, including off the road vehicles such as road build- ing machinery, logging equipment, etc. Establishments primarily en- gaged in manufacturing camelback and tire repair materials, or rubber tiring for baby carriages, bicycles, etc., or producing factory re- built or retread tires are classified in Industry 3099, Rubber In- dustries, N.E.C.	92.7	88	99	115.7	90	95
302	Rubber footwear.....	18.3	84	85	28.1	80	99
3021	<u>Rubber Footwear</u> Establishments primarily engaged in manufacturing all-rubber footwear, waterproof fabric-upper footwear, and other fabric-upper footwear having rubber soles. Establishments primarily engaged in manufac- turing rubber, composition, and fiber heels, soles, soling strips, and related shoemaking and repairing materials are classified in Industry 3099, Rubber Industries, N.E.C. Establishments primarily engaged in manufacturing footwear, except rubber, are classified in Industry 3141, Footwear, Except Rubber; house slippers in Industry 3142, House Slippers and plastic arctics and gaiters in Industry 3971, Plastic Products, N.E.C.	18.3	84	85	28.1	80	99

See footnotes at end of table.

Code	Industry title and description	1954			1947		
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			Spe- cial- iza- tion ²	Cov- er- age ³		Spe- cial- iza- tion ²	Cov- er- age ³
30	RUBBER PRODUCTS—Continued						
303	Reclaimed rubber.....	3.0	87	74	2.1	95	44
3031	Reclaimed Rubber..... Establishments primarily engaged in reclaiming rubber from used tires, scrap, and miscellaneous waste rubber by manufacturing processes which result in a product that is sold for mixing with crude rubber and artificial rubber as an extender. Establishments primarily engaged in the assembly and wholesale sale of scrap rubber, but not engaged in manufacturing reclaimed rubber, are classified in Trade Industries covered by the 1954 Census of Business.	3.0	87	74	2.1	95	44
309	Rubber industries, n.e.c.....	132.5	88	78	112.4	85	81
3099	Rubber Industries, N.E.C..... Establishments primarily engaged in manufacturing industrial and mechanical rubber goods, rubberized fabrics and vulcanized rubber clothing, and miscellaneous rubber specialties and sundries. Establishments primarily engaged in rebuilding and retreading tires for the trade, or for sale at wholesale are included in this industry but the rebuilding or retreading of rubber tires by tire-repair shops is classified in Service Industries. Establishments primarily engaged in manufacturing rubber clothing and waterproof outer garments from rubber sheeting or from rubberized fabrics produced in the same establishment are classified in this industry. Establishments primarily manufacturing such garments from purchased rubber sheeting or rubberized fabrics are classified in Industry 2385, Waterproof Outergarments. Excluded from Industry 3099 are plants primarily producing such rubber products as covered rubber thread, Industry 2241, Narrow Fabric Mills; pyroxylin and resin-coated fabrics, Industry 2295, Coated Fabrics, Except Rubberized; rubber girdles, garters, hose supports, arm bands and suspenders, Major Group 23, Apparel and Related Products; complete rubber or latex mattresses, Industry 2515, Mattresses and Bedsprings; rubber gaskets and seals, Industry 3293, Gaskets and Asbestos Insulations; rubber printers' rolls, Industry 3555, Printing Trades Machinery; dental rubber, Industry 3843, Dental Equipment and Supplies; rubber dolls, Industry 3942, Dolls; bowling balls, golfballs, tennis balls, footballs, and basketballs, Industry 3949, Sporting and Athletic Goods; and rubber hand stamps, Industry 3953, Hand Stamps and Stencils.	132.5	88	78	112.4	85	81
31	LEATHER AND LEATHER PRODUCTS This major group includes establishments engaged in tanning, currying, and finishing hides and skins, and establishments manufacturing finished leather and artificial leather products and some similar products made of other materials. Leather "converters" who assign hides and skins to contractors for tanning and finishing, are included in Industry 3111, Leather Tanning and Finishing.						

See footnotes at end of table.

Code	Industry title and description	1954			1947		
		All employ- ees ¹ (1,000)	Industry ratio (percent)		All employ- ees ¹ (1,000)	Industry ratio (percent)	
			Spe- cial- iza- tion ²	Cov- er- age ³		Spe- cial- iza- tion ²	Cov- er- age ³
31	LEATHER AND LEATHER PRODUCTS—Continued						
311	Leather tanning and finishing.....	43.5	98	100	53.3	100	100
3111	<u>Leather Tanning and Finishing</u>	43.5	98	100	53.3	100	100
	Establishments primarily engaged in tanning, currying, and finishing sole and belting leathers, upper and lining leathers, and miscellaneous specialty leathers, and in embossing, japanning, and currying leathers. Three types of establishments operate in this industry: (1) the regular tannery which tans, curries, and finishes hides or skins for its own account; (2) the leather converters who buy the raw or semi-processed skins and hides, arrange for the tanning and finishing of leathers by employing tanneries to process the materials for their account, and sell the final product; and (3) the "contract tanners" which tan, curry and finish hides or skins owned by others. Establishments which are primarily wholesalers or dealers in that they purchase and resell leathers but do not perform the functions of leather converters are classified in Wholesale Trade.						
312	Industrial leather belting.....	4.6	97	92	5.0	91	98
3121	<u>Industrial Leather Belting</u> (Industrial Leather Belting and Packing).....	4.6	97	92	5.0	91	98
	Establishments primarily engaged in manufacturing leather belting used for transmission of power, and leather packing. Other products included in this industry are leather oil and grease retainers and other industrial leather products.						
	Establishments primarily engaged in producing gaskets (regardless of material) and asbestos packings are included in Industry 3293, Gaskets and Asbestos Insulations; rubber belting and packing are included in Industry 3099, Rubber Industries, N.E.C.; plastic belting and packing in Industry 3971, Plastics Products, N.E.C.; and metallic packing Industry 3599, Machine Shops.						
313	Footwear cut stock.....	20.1	97	96	22.1	99	97
3131	<u>Footwear Cut Stock</u> (Boot and Shoe Cut Stock and Findings).....	20.1	97	96	22.1	99	97
	Establishments primarily engaged in manufacturing leather soles, inner soles, and other shoe cut stock, and leather welting, shanks, heel and toe caps, leather shoe laces, finished wood heels, and other boot shoe findings. Footwear cut stock and findings made of leatherboard are also included in this industry, but establishments primarily engaged in manufacturing heels, soling strip and soles made of rubber, composition and fiber, are classified in Industry 3099, Rubber Industries, N.E.C.; those made of plastics are classified in Industry 3971, Plastics Products, N.E.C.						
314	Footwear (except rubber).....	230.3	100	100	240.3	(NA)	(NA)
3141	<u>Footwear, Except Rubber</u> (Footwear, Except House Slippers and Rubber Footwear).....	219.4	99	99	230.9	99	100
	Establishments primarily engaged in manufacturing shoes, sandals, moccasins, boots, and allied footwear, and leggings, over-gaiters, etc., made chiefly of leather, but to some extent of canvas and other textiles. Also included in this industry are dress, work, play, or sport shoes made from leather, part-leather, on non-leather uppers such as plastics, and soles made from leather, composition, rubber, cork, etc., provided the shoes are made on conventional shoe machinery rather than by a rubber vulcanization process. Establishments primarily engaged in manufacturing rubber vulcanized footwear, including rubber-soled canvas shoes are classified in Industry 3021, Rubber Footwear; house slippers in Industry 3142, House Slippers. Footwear made by custom boot makers are excluded from manufacturing and such establishments are classified in Retail Trade.						

See footnotes at end of table.

Code	Industry title and description	1954			1947		
		All employ- ees ¹ (1,000)	Spe- cial- iza- tion ²	Industry ratio (percent) Cov- er- age ³	All employ- ees ¹ (1,000)	Spe- cial- iza- tion ²	Industry ratio (percent) Cov- er- age ³
31	LEATHER AND LEATHER PRODUCTS--Continued						
314	Footwear (except rubber)--Continued						
3142	<u>House Slippers</u> Establishments primarily engaged in manufacturing house slippers of leather or other materials, except as noted. Establishments primarily engaged in making vulcanized rubber slippers (beach and shower slippers, scuffs, etc.) are classified in Industry 3021, Rubber Footwear; wooden slippers, including wooden clogs, are classified in Industry 2499, Wood Products, N.E.C., and paper bath slippers in Industry 2699, Converted Paper Products, N.E.C. Textile mills producing slipper socks are classified in Industry 2252, Seamless Hosiery.	10.9	89	87	9.4	93	83
315	Leather gloves and mittens.....	6.9	88	90	11.6	91	91
3151	<u>Leather Dress Gloves</u> (Dress and Semidress Leather Gloves)..... Establishments primarily engaged in manufacturing dress and semidress gloves exclusively of leather. Establishments primarily engaged in manufacturing leather work gloves and mittens are classified in Industry 3152, Leather Work Gloves; knit gloves in Industry 2255, Knit Glove Mills; dress and semidress gloves and mittens made of cloth or cloth and leather combined in Industry 2381, Fabric and Combination Dress Gloves; and sport and athletic gloves in Industry 3949, Sporting and Athletic Goods.	4.4	86	91	8.9	94	95
3152	<u>Leather Work Gloves</u> (Leather Work Gloves and Mittens)..... Establishments primarily engaged in manufacturing leather work gloves and mittens. Establishments primarily engaged in manufacturing dress and semidress leather gloves are classified in Industry 3151, Leather Dress Gloves; knitted work gloves in Industry 2255, Knit Glove Mills; work gloves and mittens of cloth, or cloth and leather combined in Industry 2382, Fabric and Combination Work Gloves; and sporting and athletic gloves in Industry 3949, Sporting and Athletic Goods.	2.5	82	81	2.7	82	82
316	Luggage.....	¹ 15.9	94	97	16.0	94	97
3161	<u>Luggage</u> (Suitcases, Briefcases, Bags, Trunks, and Other Luggage)..... Establishments primarily engaged in manufacturing suitcases, briefcases, bags, trunks, and related luggage of leather or other materials. Other products included in this industry are: hat boxes, (except paper or paperboard), camera and binocular cases, toilet kits and cases. Establishments primarily engaged in manufacturing luggage hardware are classified in Industry 3429, Hardware, N.E.C.	¹ 15.9	94	97	16.0	94	97
317	Handbags and small leather goods.....	29.5	96	96	26.0	97	95
3171	<u>Handbags and Purses</u> (Women's Handbags and Purses)..... Establishments primarily engaged in manufacturing women's handbags and purses of leather or other materials.	¹ 22.9	97	98	20.4	99	97
3172	<u>Small Leather Goods</u> Establishments primarily engaged in manufacturing small leather articles such as billfolds, card cases, cigarette cases, key cases, coin purses, tobacco pouches, and checkbook covers. Also included are establishments making these products from plastic and non-leather materials.	¹ 6.7	91	87	5.6	90	90

Code	Industry title and description	1954			1947		
		All employ- ees ¹ (1,000)	Industry ratio (percent)		All employ- ees ¹ (1,000)	Industry ratio (percent)	
			Spe- cial- iza- tion ²	Cov- er- age ³		Spe- cial- iza- tion ²	Cov- er- age ³
31	LEATHER AND LEATHER PRODUCTS—Continued						
319	Miscellaneous leather goods.....	5.9	92	85	9.0	(NA)	(NA)
3192	<u>Saddlery, Harness, and Whips.....</u> Establishments primarily engaged in manufacturing saddles and parts, harness and parts, halters, horse boots, feed bags, whips and crops, whipstocks, and whip handles. Establishments primarily engaged in manufacturing bicycle and motorcycle saddles are classified in Industry 3751, Motorcycles and Bicycles; those manufacturing saddlery and harness hardware in Industry 3429, Hardware, N.E.C.	¹ 1.3	88	87	2.9	86	92
3199	<u>Leather Goods, N.E.C.....</u> Establishments primarily engaged in manufacturing miscellaneous leather goods, n.e.c., including embossed leather goods, leather desk sets, dog collars and other dog furnishings, novelties, razor strops, and safety belt. Establishments primarily engaged in manufacturing leather garments are classified in Industry 2386, Leather and Sheep-Lined Clothing; leather belts (made for sale separately) in Industry 2387, Belts; leather gaskets in Industry 3293, Gaskets and Asbestos Insulations; leather buffing and polishing wheels in Industry 3291, Abrasive Products.	¹ 4.6	91	82	6.2	90	80
32	STONE, CLAY, AND GLASS PRODUCTS This major group includes establishments engaged in manufacturing flat glass and other glass products, cement, structural clay products, pottery, concrete and gypsum products, cut-stone products, abrasive and asbestos products, etc., principally from stone, clay, and sand. When separate reports are available for mines and quarries operated by manufacturing establishments classified in this major group, the mining activities are classified in mining industries; when separate reports are not available, the mining activities are classified with the manufacturing operations and included herein. Excluded from Major Group 32 are such glass products as electric lamps (bulbs) and lenses which are classified in Industry 3651, Electric Lamps and Major Group 38, Instruments and Related Products, respectively.						
321	Flat glass.....	24.6	¹ 490	(D)	25.3	99	75
3211	<u>Flat Glass.....</u> Establishments primarily engaged in manufacturing flat glass, including plate glass, clear window glass, rolled glass, figured and wire glass, opalescent and obscured glass, spectacle glass, and cathedral and skylight glass. This industry also produces laminated glass, but establishments primarily engaged in manufacturing laminated glass from purchased flat glass are classified in Industry 3231, Products of Purchased Glass.	24.6	¹ 490	(D)	25.3	99	75
322	Pressed and blown glassware.....	91.3	99	99	89.3	(NA)	(NA)
3221	<u>Glass Containers.....</u> Establishments primarily engaged in manufacturing glass containers for commercial packing and bottling, and for home canning. Products of this industry (which may be machine-made or hand-made) include ampoules, carboys, cosmetic jars, fruit jars, medicine bottles, milk bottles, and vials.	49.4	98	99	47.1	(D)	(D)

See footnotes at end of table.

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			Spe- cial- iza- tion ²	Cov- er- age ³		Spe- cial- iza- tion ²	Cov- er- age ³
32	STONE, CLAY, AND GLASS PRODUCTS--Continued						
322*	Pressed and blown glassware--Continued						
3229	<u>Pressed and Blown Glassware, N.E.C.</u>	41.9	98	96	42.2	96	91
	Establishments primarily engaged in manufacturing pressed and blown glass and glassware, n.e.c. Important products of this industry include machine-made or hand-made glass tableware; glass blanks for electric light bulbs, light shades and reflectors, and other lighting glassware; glass tubing and other technical, scientific, and industrial pressed and blown glassware; glass cooking and oven ware; glass brick; glass insulators; electronic tube blanks; lens blanks; battery jars; blocks and tile. Also included in this industry are establishments primarily engaged in the production of glass fiber strand, staple yarn, continuous yarn, roving, bonded matting, and plastic reinforcement material.						
	Establishments primarily engaged in the production of pressed lenses for headlights, beacons, and lanterns are also included in this industry, but establishments primarily engaged in the production of optical lenses are classified in Industry 3831, Optical Lenses and Prisms. Establishments primarily engaged in manufacturing glass containers are classified in Industry 3221, Glass Containers, and complete electric light bulbs in Industry 3651, Electric Lamps.						
323	Products of purchased glass.....	21.6	97	75	23.9	97	85
3231	<u>Products of Purchased Glass</u>	21.6	97	75	23.9	97	85
	Establishments primarily engaged in manufacturing glass products from purchased glass, including laminated or safety glass, stained, leaded, ornamented, and decorated glass; mirrors; cutware; scientific-apparatus glass; glass novelties; mosaic glass; round glass; cut, beveled, and etched glass; and glass watch crystals. Establishments primarily engaged in manufacturing optical lenses and ophthalmic lenses are classified in Major Group 38, Instruments and Related Products; glass fabrics in Industry 2234, Synthetic Broad-Woven Fabrics, glass insulation in Industry 3275, Mineral Wool; glass fishing rods in Industry 3949, Sporting and Athletic Goods.						
324	Cement, hydraulic.....	39.8	99	100	35.7	100	100
3241	<u>Cement, Hydraulic</u>	39.8	99	100	35.7	100	100
	Establishments primarily engaged in manufacturing hydraulic cement, including Portland, natural, masonry, and puzzolan cements.						
325	Structural clay products.....	72.8	97	99	69.3	(NA)	(NA)
3251	<u>Brick and Hollow Tile</u>	32.4	96	98	29.6	95	97
	Establishments primarily engaged in manufacturing clay building brick, vitrified paving brick, and hollow structural tile. Establishments primarily engaged in manufacturing fire-brick are classified in Industry 3255, Clay Refractories; sand-lime brick in Industry 3299, Non-metallic Mineral Products, N.E.C.; glass brick in Industry 3229, Pressed and Blown Glassware, N.E.C.; and concrete brick in Industry 3271, Concrete Products.						
3253	<u>Clay Floor and Wall Tile</u>	11.3	91	99	6.8	97	95
	Establishments primarily engaged in manufacturing ceramic tile, mosaic tile, glazed and enameled tile, including faience and other types of ceramic floor and wall tile (except quarry or drain tile--Industry 3259, Structural Clay Products, N.E.C.). Establishments primarily engaged in manufacturing hollow structural tile and ceramic and salt glazed facing tile are classified in Industry 3251, Brick and Hollow Tile; asphalt floor tile in Industry 3292, Asbestos Products; rubber tile in Industry 3099, Rubber Products, N.E.C.; and other floor and wall covering in Industry 2274, Hard Surface Floor Coverings.						

See footnotes at end of table.

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32	STONE, CLAY, AND GLASS PRODUCTS--Continued						
325	Structural clay products--Continued						
3254	<u>Clay Sewer Pipe</u> Establishments primarily engaged in manufacturing sewer pipe and kindred products made of clay. Establishments primarily engaged in manufacturing concrete sewer pipe are classified in Industry 3271, Concrete Products, and cast iron sewer pipe in Industry 3321, Gray-iron Foundries.	9.6	88	92	9.1	83	92
3255	<u>Clay Refractories</u> Establishments primarily engaged in manufacturing fire brick, crucibles, and other heat-resisting clay products such as glass-house tank blocks, stoppers, floaters, and rings. Establishments primarily engaged in manufacturing nonclay refractories are classified in Industry 3297, Nonclay Refractories.	14.5	92	95	18.0	93	94
3259	<u>Structural Clay Products, N.E.C.</u> Establishments primarily engaged in manufacturing structural clay products, n.e.c., such as architectural terra cotta, roofing tile, stove lining, flue lining, chimney pipes, thimbles and tops, wall coping, segment blocks, drain tile, adobe brick, and quarry or promenade tile.	5.0	89	72	5.7	83	70
326	Pottery and related products.....	50.9	98	95	58.0	(NA)	(NA)
3261	<u>Vitreous Plumbing Fixtures (Vitreous and Semivitreous Plumbing Fixtures)</u> ... Establishments primarily engaged in manufacturing vitreous and semi-vitreous pottery plumbing fixtures and accessories. Important products of this industry include bathroom and toilet fixtures, closet bowls, flush tanks, lavatories and stalls, bathtubs, laundry trays, shower receptors, sinks, sink and laundry tray combinations, urinals, and plumbing fittings such as towel racks, soap cups, and accessories. Establishments primarily engaged in manufacturing enameled-iron, cast iron, or pressed metal sanitary ware are classified in Industry 3431, Metal Plumbing Fixtures.	9.2	99	99	7.8	98	99
3262	<u>Vitreous-China Food Utensils (Vitreous-China Table and Kitchen Articles)</u> ... Establishments primarily engaged in manufacturing vitreous-china table and kitchen articles for use in households and in hotels, restaurants, and other commercial institutions, for preparing, serving, or storing food and drink. Establishments primarily engaged in manufacturing fine (semivitreous) types of earthenware (whiteware) table and kitchen articles are classified in Industry 3263, Earthenware Food Utensils.	8.7	95	96	11.1	97	97
3263	<u>Earthenware Food Utensils (Fine Earthenware, Whiteware, Table and Kitchen Articles)</u> Establishments primarily engaged in manufacturing fine (semivitreous) types of earthenware table and kitchen articles for preparing, serving, or storing food or drink. Decorated and undecorated earthenware and whiteware for hotel, commercial or household kitchen and table use are included. Establishments primarily engaged in manufacturing vitreous-china table and kitchen articles are classified in Industry 3262, Vitreous-China Food Utensils.	13.3	98	92	16.7	92	97
3264	<u>Porcelain Electrical Supplies</u> Establishments primarily engaged in manufacturing porcelain electrical insulators, molded porcelain parts for electrical devices, spark plug and steatitic porcelain, and other electrical supplies from clay and other ceramic materials.	9.6	94	87	11.5	89	93

See footnotes at end of table.

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			Spe- cial- iza- tion ²	Cov- er- age ³		Spe- cial- iza- tion ²	Cov- er- age ³
32	STONE, CLAY, AND GLASS PRODUCTS--Continued						
326	Pottery and related products--Continued						
3265	<u>China Decorating for the Trade</u>.....	.5	100	100	1.0	100	98
	Establishments primarily engaged in firing and decorating white china and earthenware for the trade. Establishments primarily engaged in decorating purchased china or china transferred from other plants of the company are also included in this industry but those plants which are primarily engaged in manufacturing and decorating china are classified in other industries according to the type of china produced. Establishments primarily engaged in firing and decorating china to individual order are classified as nonmanufacturing and included in Trade Industries.						
3269	<u>Pottery Products, N.E.C.</u>	9.6	95	90	9.7	95	83
	Establishments primarily engaged in manufacturing art and decorative pottery, industrial and laboratory ware and miscellaneous crockery, earthenware, stoneware and other pottery products not elsewhere classified. Important products of this industry include china, earthenware, and stoneware figures, table and kitchen articles; vases, lamp bases, and garden pottery; chemical porcelain; industrial or laboratory ware; grinding media; forms for dipped rubber goods; filtering media; earthenware flower pots; and pyrometric cones and tubes.						
327	Concrete and plaster products.....	89.6	96	98	70.2	(NA)	(NA)
3271	<u>Concrete Products</u>	60.4	99	99	46.8	99	99
	Establishments primarily engaged in manufacturing concrete building blocks and shapes, pipe and conduit, and similar products such as poles, piling, septic tanks, garbage boxes, garden furniture, incinerators, and vaults made from a combination of stone or gravel, sand, and cement. Contractors engaged in concrete construction work are classified in Construction Industries, and building-materials dealers engaged in mixing and delivering ready-mixed concrete in Trade Industries.						
3272	<u>Gypsum Products</u>	11.0	95	98	7.5	97	98
	Establishments primarily engaged in manufacturing plaster, plaster board, and other products composed wholly or chiefly of gypsum.						
3274	<u>Lime</u>	8.0	84	97	7.0	93	97
	Establishments primarily engaged in manufacturing quicklime, hydrated lime, and dead-burned dolomite from limestone, dolomite, shells, or other substances. Establishments primarily engaged in manufacturing cut limestone and limestone products are classified in Industry 3281, Cut-Stone and Stone Products; and pulverized limestone in Industry 3295, Minerals: Ground or Treated.						
3275	<u>Mineral Wool</u>	10.2	95	93	8.9	(D)	(D)
	Establishments primarily engaged in manufacturing mineral wool and mineral-wool insulation products made of such materials as rock, slag, and silica. Establishments primarily engaged in manufacturing asbestos and exfoliated vermiculite insulation products are classified in Group 329, Nonmetallic Mineral Products, N.E.C.						

See footnotes at end of table.

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			Spe- cial- iza- tion ²	Cov- er- age ³		Spe- cial- iza- tion ²	Cov- er- age ³
32	STONE, CLAY, AND GLASS PRODUCTS—Continued						
328	Cut-stone and stone products.....	21.6	93	99	9.9	100	98
3281	<u>Cut-Stone and Stone Products</u> Establishments primarily engaged in cutting, shaping, and finishing marble, granite, slate, and other stone for building and miscellaneous uses. Important products of this industry include monuments and tombstones, dimension stones for buildings, slate blackboards, and stone furniture. Quarries operated in conjunction with stone-dressing activities are included in this industry. Establishments primarily engaged in buying or selling partly finished monuments and tombstones, but performing no work on the stones other than lettering or finishing to custom order, are classified in Trade Industries. The cutting of grindstones, pulpstones, and whetstones at the quarry is classified in Mineral Industries.	21.6	93	99	9.9	100	98
329	Miscellaneous nonmetallic mineral products.....	79.6	94	89	79.6	(NA)	(NA)
3291	<u>Abrasive Products</u> Establishments primarily engaged in manufacturing abrasive grinding wheels of natural or synthetic materials; abrasive sticks, stones, bricks, paper, and cloth; abrasive grains, natural or manufactured; and buffing and polishing wheels. The cutting of grindstones, pulp-stones, and whetstones at the quarry is classified in Mining Industries.	22.3	94	87	21.0	94	86
3292	<u>Asbestos Products</u> Establishments primarily engaged in manufacturing asbestos textiles, asbestos building materials (except asbestos paper--Industry 2613, Building Paper and Board Mills), and other commodities composed wholly or chiefly of asbestos, (except steam and other packing, pipe and boiler covering, and gaskets, Industry 3293). Other asbestos products included in Industry 3292 are brake lining, clutch facings, floor tile insulating cement, rope, stove mats, and table pads.	22.0	87	93	21.6	87	90
3293	<u>Gaskets and Asbestos Insulations</u> (Steam and Other Packing, and Pipe and Boiler Covering)..... Establishments primarily engaged in manufacturing packing for steam, water, and other pipe joints, and for engines, air compressors, etc.; asbestos insulating materials for covering boilers and pipes; and gaskets. Establishments primarily engaged in manufacturing leather packing are classified in Industry 3121, Industrial Leather Belting, rubber packing in Industry 3099, Rubber Products, N.E.C., and metal packing in Industry 3599, Machine Shops.	12.8	86	70	13.2	83	75
3295	<u>Minerals: Ground or Treated</u> (Minerals and Earths: Ground or Otherwise Treated)..... Establishments primarily engaged in grinding, pulverizing, or otherwise treating certain earths, rocks, or minerals, such as barytes, borax, chalk, clays, Cornwall stone, feldspar, kaolin, mica, pumice, quartz, silica, talc, and natural graphite as well as establishments primarily engaged in crushing or grinding purchased slag.	7.7	98	87	8.9	94	88
3297	<u>Nonclay Refractories</u> Establishments primarily engaged in manufacturing refractories and crucibles made of materials other than clay. Establishments primarily engaged in manufacturing clay refractories and crucibles are classified in Industry 3255, Clay Refractories.	8.6	96	90	10.3	94	91
3298	<u>Statuary and Art Goods</u> Establishments primarily engaged in the factory production of statuary and art goods made of plaster of Paris, papier-maché, gypsum, and clay. Important products of this industry include such articles as statuary, small images, and architectural sculptures; ornamental plaster work such as mantels, columns, panels, moldings, brackets, vases, urns, and pedestals; and scagliola and papier-mache articles.	1.7	89	99	2.0	91	97

See footnotes at end of table.

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			Spe- cial- iza- tion ²	Cov- er- age ³		Spe- cial- iza- tion ²	Cov- er- age ³
32	STONE, CLAY, AND GLASS PRODUCTS—Continued						
329	Miscellaneous nonmetallic mineral products—Continued						
3299	Nonmetallic Mineral Products, N.E.C.....	4.5	84	94	2.6	86	76
	Establishments primarily engaged in manufacturing exfoliated vermicu- late; stucco; magnesite floor composition; sand-lime brick, block and tile; and other nonmetallic mineral products, n.e.c. Establishments primarily engaged in manufacturing sheet mica products, except radio parts, are also included in Industry 3299. Establishments primarily engaged in manufacturing sheet mica radio parts are classified in Industry 3661, Radios and Related Products.						
33	PRIMARY METAL INDUSTRIES						
	This major group includes establishments engaged in the smelting and refining of ferrous and nonferrous metals from ore, pig, or scrap; in the rolling, drawing, and alloying of ferrous and nonferrous metals; and in the manufacture of castings, forgings, and other basic products of ferrous and nonferrous metals.						
331	Blast furnaces and steel mills.....	530.1	96	92	545.7	(NA)	(NA)
3311	Blast Furnaces.....	36.5	100	100	36.9	100	100
	Establishments primarily engaged in manufacturing pig iron and blast- furnace ferrous alloys from ore and scrap. Establishments primarily en- gaged in manufacturing ferro and nonferrous additive alloys by electro- metallurgical processes are classified in Industry 3313, Electrometal- lurgical Products.						
3312	Steel Works and Rolling Mills.....	482.2	⁹ 94	⁹ 85	499.2	(NA)	(NA)
	Establishments primarily engaged in converting pig iron, scrap iron and scrap steel into steel and hot-rolling iron and steel into basic shapes such as plates, sheets, strips, rods, bars, and tubing. In many such establishments, the manufacturing processes are carried beyond the hot- rolling stage and into the production of steel forgings, drawn wire, welded and heavy-riveted pipe, cold-rolled sheet and strip, cold- finished bars and shapes, and wire nails and spikes.						
3313	Electrometallurgical Products.....	11.4	⁸ 92	95	9.6	⁸ 88	95
	Establishments primarily engaged in manufacturing ferro and nonferrous additive alloys by electrometallurgical processes, including high- percentage ferroalloys such as ferromanganese, ferrochromium, ferro- vanadium, and ferrotitanium, and high-percentage nonferrous additive alloys. Ferroalloys and other additives produced in blast furnaces are included in Industry 3311, Blast Furnaces.						
332	Iron and steel foundries.....	212.4	94	90	266.0	(NA)	(NA)
3321	Gray-Iron Foundries.....	133.9	94	87	173.8	92	87
	Establishments primarily engaged in manufacturing gray-iron castings, including cast gray-iron pipe and fittings. Establishments primarily engaged in manufacturing valves and fittings, except plumbers' brass goods and fittings are classified in Industry 3591, Valves and Fit- tings, Except Plumbing.						
3322	Malleable-Iron Foundries.....	23.4	86	89	29.9	88	91
	Establishments primarily engaged in manufacturing malleable-iron cast- ings.						
3323	Steel Foundries.....	55.1	88	87	62.3	89	83
	Establishments primarily engaged in manufacturing steel castings.						

See footnotes at end of table.

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			Spe- cial- iza- tion ²	Cov- er- age ³		Spe- cial- iza- tion ²	Cov- er- age ³
33	PRIMARY METAL INDUSTRIES—Continued						
333	Primary nonferrous metals.....	54.5	91	94	43.1	(NA)	(NA)
3331	<u>Primary Copper</u> (Primary Smelting and Refining of Copper)..... Establishments primarily engaged in smelting copper from ore, and in re- fining copper by electrolytic or other processes. Important products of this industry include copper blocks, slabs, pigs, ingots, or refin- ery bars. Establishments engaged in rolling, drawing, and extruding primary copper are classified in Industry 3351, Copper Rolling and Drawing. Establishments primarily engaged in recovering copper from scrap are included in Industry 3341, Secondary Nonferrous Metals.	13.8	(10)	(10)	14.6	(10)	(10)
3332	<u>Primary Lead</u> (Primary Smelting and Refining of Lead)..... Establishments primarily engaged in smelting lead from ore, and in re- fining lead by any process. Important products of this industry in- clude lead blocks, slabs, pigs, or ingots. Establishments primarily engaged in rolling, drawing, or alloying lead are classified in Indus- try 3359, Rolling and Drawing, N.E.C. Establishments primarily engaged in producing lead from scrap, but which are not engaged in further fa- brication are classified in Industry 3341, Secondary Nonferrous Metals.	4.1	(10)	(10)	4.7	(10)	(10)
3333	<u>Primary Zinc</u> (Primary Smelting and Refining of Zinc)..... Establishments primarily engaged in smelting zinc from ore and in re- fining zinc by any process. Important products of this industry in- clude zinc block, slabs, spelter, pigs, or ingots. Establishments pri- marily engaged in rolling, drawing or alloying primary zinc are classi- fied in Industry 3359, Rolling and Drawing, N.E.C. Establishments pri- marily engaged in producing zinc from scrap but which are not engaged in further fabrication are classified in Industry 3341, Secondary Non- ferrous Metals.	10.5	87	91	12.4	(NA)	100
3334	<u>Primary Aluminum</u> (Primary Refining of Aluminum)..... Establishments primarily engaged in producing aluminum from ore or from alumina, and in refining aluminum by any process. Important products of this industry include aluminum blocks, slabs, pigs and ingots. Es- tablishments primarily engaged in rolling, drawing, and extruding pri- mary aluminum are classified in Industry 3352, Aluminum Rolling and Drawing. Establishments primarily engaged in producing aluminum from scrap but which are not engaged in further fabrication are classified in Industry 3341, Secondary Nonferrous Metals.	20.6	100	99	8.9	(NA)	100
3339	<u>Primary Nonferrous Metals, N.E.C.</u> (Primary Smelting and Refining of Nonfer- rous Metals, N.E.C.)..... Establishments primarily engaged in smelting and refining nonferrous metals, n.e.c., including gold, silver, platinum, iridium, cobalt, nickel, tin, antimony, and magnesium. Establishments primarily engaged in rolling, drawing, and alloying these nonferrous primary metals are classified in Industry 3359, Rolling and Drawing, N.E.C. Establish- ments primarily engaged in producing nonferrous metals from scrap but which are not engaged in further fabrication are classified in Indus- try 3341, Secondary Nonferrous Metals.	5.5	89	50	2.5	(NA)	16

See footnotes at end of table.

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33	PRIMARY METAL INDUSTRIES--Continued						
334	Secondary nonferrous metals.....	15.8	93	77	18.1	(NA)	(NA)
3341	<u>Secondary Nonferrous Metals</u> (Secondary Smelting and Refining of Nonferrous Metals and Alloys)..... Establishments primarily engaged in recovering nonferrous metals and alloys from new and used scrap and dross, but which are not engaged in further fabrication. This industry includes establishments engaged in both the recovery and alloying of precious metals, but does not include establishments primarily engaged in alloying primary copper (Industry 3351, Copper Rolling and Drawing), primary aluminum (Industry 3352, Aluminum Rolling and Drawing), or other nonferrous primary metals (Industry 3359, Rolling and Drawing, N.E.C.). Plants engaged in the recovery of tin through secondary smelting and refining are classified in this industry, but those primarily engaged in detinning cans by chemical processes without the production of tin are classified in Industry 2819 Inorganic Chemicals, N.E.C. Establishments primarily engaged in assembling, sorting, and breaking up scrap metal, without smelting and refining are classified in Trade Industries. Establishments primarily engaged in producing nonferrous metals from the ore are classified according to principal metal recovered: Industry 3331, Primary Copper; Industry 3332, Primary Lead; Industry 3333, Primary Zinc; Industry 3334, Primary Aluminum; and, Industry 3339, Primary Nonferrous Metals, N.E.C. Refined unalloyed nonferrous metals are also classified in Industry 3341, if the plant produces such metals from scrap rather than from ore.	15.8	93	64	18.1	(NA)	(NA)
335	Nonferrous rolling and drawing.....	89.1	96	92	88.8	(NA)	(NA)
3351	<u>Copper Rolling and Drawing</u> (Rolling, Drawing, and Alloying of Copper)..... Establishments primarily engaged in rolling, drawing, and extruding copper, brass, bronze, and other copper-base alloy basic shapes such as plates, sheets, strips, rods, wire and tubing. Establishments primarily engaged in producing primary copper alloys are classified in this industry, but establishments primarily engaged in recovering copper and its alloys from scrap or dross are classified in Industry 3341, Secondary Nonferrous Metals. Establishments primarily engaged in drawing wire from purchased copper and copper-base alloy rods are classified in Industry 3392, Wire Drawing, and those primarily engaged in manufacturing insulated wire from purchased copper wire are classified in Industry 3631, Insulated Wire and Cable.	41.9	95	90	53.9	(NA)	92
3352	<u>Aluminum Rolling and Drawing</u> (Rolling, Drawing, and Alloying of Aluminum).. Establishments primarily engaged in rolling, drawing, and extruding aluminum and aluminum-base alloy basic shapes such as plates, sheets, rods, wire and tubing. Other products included in this industry are: foil stock, pipe, rails, and slugs. Establishments primarily engaged in producing primary aluminum alloys are included in this industry, but establishments primarily engaged in recovering aluminum and its alloys from scrap or dross are classified in Industry 3341, Secondary Nonferrous Metals. Establishments primarily engaged in drawing wire from purchased aluminum and aluminum-base alloy rods are classified in Industry 3392, Wire Drawing.	36.8	92	93	27.4	(NA)	96

See footnotes at end of table.

Code	Industry title and description	1954			1947		
		All employ- ees ¹ (1,000)	Industry ratio (percent)		All employ- ees ¹ (1,000)	Industry ratio (percent)	
			Spe- cial- iza- tion ²	Cov- er- age ³		Spe- cial- iza- tion ²	Cov- er- age ³
33	PRIMARY METAL INDUSTRIES--Continued						
335	Nonferrous rolling and drawing--Continued						
3359	<u>Rolling and Drawing, N.E.C.</u> (Rolling, Drawing, and Alloying of Nonferrous Metals, N.E.C.).....	10.4	94	84	7.6	(NA)	94
	Establishments primarily engaged in rolling, drawing, and alloying non-ferrous metals such as gold, silver, zinc, nickel, lead, and magnesium. The products of this industry are produced in the form of basic shapes such as sheets, strips, bars, rods, wire, and tubing. Important alloys produced in this industry include monel metal, white metal, antifric-tion metal, babbitt metal, type metal, solder, and alloys of gold, sil-ver, platinum, magnesium, rare-earth, and other nonferrous metals. Other products included in this industry are: extruded shapes, pipe and plate of nonferrous metals other than copper or aluminum. Estab-lishments primarily engaged in recovering nonferrous metals and alloys from scrap or dross are classified in Industry 3341, Secondary Nonfer-rous Metals; manufacturing gold, silver, tin, and other foils in Indus-try 3497, Metal Foil, and drawing wire from purchased nonferrous rods in Industry 3392, Wire Drawing. Establishments which primarily roll or draw precious metals to be used in the production of jewelry (stock shop products) are classified in Industry 3912, Jewelers' Findings.						
336	Nonferrous foundries.....	73.5	90	92	66.8	93	92
3361	<u>Nonferrous Foundries</u>	73.5	90	92	66.8	93	92
	Establishments primarily engaged in manufacturing castings and die castings of aluminum, brass, bronze, and other nonferrous metals and alloys. Establishments primarily engaged in manufacturing iron and steel castings are classified in Group 332, Iron and Steel Foundries. Nonferrous castings which have been machined and further processed are excluded from Industry 3361, and included as fabricated metal products or parts for machinery and equipment classified in other industries, e.g. brass and bronze relief valves are classified in Industry 3591, Valves and Fittings, Except Plumbing. The removal of gates, risers, sprues, and tumbling, dipping, or sandblasting do not constitute ma-chining or further processing and are, therefore, considered as a foundry operation.						
339	Primary metal industries, n.e.c.....	141.8	94	35	129.6	(NA)	(NA)
3391	<u>Iron and Steel Forgings</u>	39.8	88	73	36.7	95	77
	Establishments primarily engaged in manufacturing light and heavy board drop, steam hammer, upset, and press forgings with or without the use of dies. Rolling mills engaged in the production of iron and steel forgings are classified in Industry 3312, Steel Works and Rolling Mills.						

See footnotes at end of table.

Code	Industry title and description	1954			1947		
		All employ- ees ¹ (1,000)	Industry ratio (percent)		All employ- ees ¹ (1,000)	Industry ratio (percent)	
			Spe- cial- iza- tion ²	Cov- er- age ³		Spe- cial- iza- tion ²	Cov- er- age ³
33	PRIMARY METAL INDUSTRIES—Continued						
339	Primary metal industries, n.e.c.—Continued						
3392	Wire Drawing.....	54.9	95	⁵ 39	55.0	96	⁵ 37
	Establishments primarily engaged in drawing wire from purchased iron, steel, or nonferrous metal rods or bars, and which may be engaged in the further manufacture of products made from wire. Rolling mills engaged in the production of ferrous wire are classified in Industry 3312, Steel Works and Rolling Mills, and establishments primarily engaged in rolling, and drawing nonferrous metals in Group 335, Nonferrous Rolling and Drawing. Establishments primarily engaged in manufacturing insulated wire and cable from purchased wire are classified in Industry 3631, Insulated Wire and Cable, and other wire products from purchased wire in Group 348, Fabricated Wire Products.						
	Establishments are classified in Industry 3392 when primarily engaged in drawing wire from purchased rods, rather than on the basis of products shipped. However, significantly different types of establishments are included in this industry. On the one hand are establishments drawing steel wire from purchased rods including establishments which further fabricate the drawn wire into wire rope and cable, woven wire products, fencing, nails and spikes, etc. Also included are wire drawing plants producing nonferrous wire, principally copper and aluminum, which may also process the wire into insulated wire and cable, woven wire products such as insect screening, etc.						
3393	Welded and Heavy-Riveted Pipe.....	22.1	91	⁵ 30	15.7	92	⁵ 26
	Establishments primarily engaged in manufacturing welded pipe and tubes, and lock-joint and heavy-riveted pipe from purchased skelp. Rolling mills engaged in manufacturing welded and heavy-riveted pipe are classified in Industry 3312, Steel Works and Rolling Mills; establishments primarily engaged in manufacturing seamless pipe are also classified in Industry 3312 regardless of whether they melt the steel or produce the pipe from tube rounds received at the establishment. Establishments primarily engaged in manufacturing cast-iron pressure and soil pipe are classified in Industry 3321, Gray-Iron Foundries; and fabricated pipe and fittings made from purchased pipe in Industry 3592, Fabricated Pipe and Fittings.						
3399	Primary Metal Industries, N.E.C.....	25.1	92	⁵ 20	22.1	94	⁵ 26
	Establishments primarily engaged in manufacturing flat bright cold-rolled strip (including razor-blade strip), cold-rolled sheets, cold-finished steel bars, nonferrous forgings, ferrous and nonferrous flakes and powders, and other primary metal products, n.e.c. Establishments primarily engaged in annealing and heat treating steel for the trade are also included in this industry. Rolling mills engaged in manufacturing cold-rolled steel sheet and strip and cold-finished steel bars and bar shapes from basic shapes produced in the same establishments are classified in Industry 3312, Steel Works and Rolling Mills.						

See footnotes at end of table.

Code	Industry title and description	1954			1947		
		All employ- ees ¹ (1,000)	Industry ratio (percent)		All employ- ees ¹ (1,000)	Industry ratio (percent)	
			Spe- cial- iza- tion ²	Cov- er- age ³		Spe- cial- iza- tion ²	Cov- er- age ³
34	FABRICATED METAL PRODUCTS						
	This major group includes establishments engaged in fabricating fer- rous and nonferrous metal products such as tin cans and other tinware, hand tools, cutlery, general hardware, nonelectric heating apparatus, fabricated structural metal products, and a variety of metal products not elsewhere classified. Establishments primarily engaged in manufacturing small ma- chine parts by powder metallurgy (Standard Industrial Classification Indus- try 3464) are classified according to principal products made rather than by process of manufacture. Certain important segments of the metal fabri- cating industries are classified in other major groups such as machinery in Major Group 35, Machinery, Except Electrical, and 36, Electrical Machinery; transportation equipment in Major Group 37, Transportation Equipment; pro- fessional, scientific and controlling instruments, watches and clocks in Major Group 38, Instruments and Related Products; and jewelry and silver- ware in Major Group 39, Miscellaneous Manufactures. The production of fer- rous and nonferrous metals and their alloys, and basic products made of metal, are classified in Major Group 33, Primary Metal Industries. Heat- ing, plumbing, air-conditioning, refrigeration, and roofing contractors incidently manufacturing boiler shop or sheet metal products are classi- fied in Nonmanufacturing Industries.						
341	Tin cans and other tinware.....	55.2	98	99	46.8	97	99
3411	Tin Cans and Other Tinware.....	55.2	98	99	46.8	97	99
	Establishments primarily engaged in manufacturing packers' cans, beer cans, general-line cans, oil containers, milk and ice-cream cans, and other tinware (except household and hospital cooking and kitchen uten- sils--Industry 3463, Metal Stampings) from purchased tin plate, terne plate, black plate, or enameled sheet metal.						
	Establishments primarily engaged in manufacturing paperboard cans, with or without metal ends, are classified in Industry 2674, Fiber Cans, Tubes, Drums, etc.						
342	Cutlery, tools, and hardware.....	143.7	87	90	154.5	(NA)	(NA)
3421	Cutlery.....	15.1	88	96	20.2	93	94
	Establishments primarily engaged in manufacturing cutlery (except ster- ling silver, silver-plated cutlery and stainless steel--Industry 3914, Silverware and Plated Ware); scissors, clippers, except hair clippers, and razors (except electric), safety-razor blades, manicure implements, pocket knives, butcher knives, tinners' snips, and hedge clippers.						
	Plants primarily engaged in manufacturing electric razors are included in Industry 3621, Electrical Appliances; animal hair clippers in Indus- try 3522, Farm Machinery (Except Tractors), and other hair clippers in Industry 3991, Beauty and Barber-Shop Equipment.						
3422	Edge Tools.....	7.1	83	76	8.5	81	76
	Establishments primarily engaged in manufacturing all kinds of edge tools, such as scythes, axes, planes, chisels, drawknives; and cutting dies for use in cutting cloth, paper, and leather. Establishments pri- marily engaged in manufacturing metal cutting dies are classified in Industry 3544, Special Dies and Tools, and cutting tool accessories for machine tools are classified in Industry 3545, Metalworking Machinery Attachments.						

See footnotes at end of table.

Code	Industry title and description	1954			1947		
		All employ- ees ¹ (1,000)	Industry ratio (percent)		All employ- ees ¹ (1,000)	Industry ratio (percent)	
			Spe- cial- iza- tion ²	Cov- er- age ³		Spe- cial- iza- tion ²	Cov- er- age ³
34	FABRICATED METAL PRODUCTS—Continued						
342	Cutlery, tools, and hardware—Continued						
3423	<u>Hand Tools, N.E.C.</u> (Hand Tools, Except Edge Tools, Machine Tools, Files, and Saws)..... Establishments primarily engaged in manufacturing hand tools, such as hammers, wrenches, pliers, screw drivers, shovels, rakes, forks (garden, hay, etc.), carpenters' levels, metal mitre boxes, metal rules and rulers, soldering irons, trowels, carpenters' vises, and a variety of special tools used by repairmen, jewelers, stone-cutters and ironworkers. Establishments primarily engaged in manufacturing edge tools are classified in Industry 3422, Edge Tools; files in Industry 3424, Files; saws in Industry 3425, Hand Saws and Saw Blades; and power-driven hand tools and attachments and accessories for machine tools in Major Group 35, Machinery, Except Electrical.	23.4	86	83	35.4	81	85
3424	<u>Files</u> Establishments primarily engaged in manufacturing and recutting files and rasps.	2.9	98	93	4.4	94	93
3425	<u>Hand Saws and Saw Blades</u> Establishments primarily engaged in manufacturing hand saws, saw blades for hand and power-driven saws and saw accessories. Establishments primarily engaged in manufacturing power-driven sawing machines are classified in Major Group 35, Machinery, Except Electrical	6.9	71	90	8.4	78	87
3429	<u>Hardware, N.E.C.</u> Establishments primarily engaged in manufacturing miscellaneous metal products usually termed "hardware" and not elsewhere classified. Important products of this industry include door locks, lock sets, and other builders' hardware; motor-vehicle and other transportation equipment hardware; hardware for caskets, furniture, cabinets, pianos and organs, saddlery, harness, trunks, and suitcases; locks and padlocks; vacuum bottles and jugs; andirons, casters, keys and key blanks. Establishments primarily engaged in manufacturing bolts and nuts are classified in Industry 3494, Bolts, Nuts, Washers, and Rivets, nails and spikes in Industry 3481, Nails and Spikes; cutlery in Industry 3421, Cutlery; hand tools in Industry 3423, Hand Tools, N.E.C., and pole-line hardware in Industry 3611, Wiring Devices and Supplies.	88.3	86	90	77.5	89	91
343	Heating and plumbing equipment.....	105.9	85	86	151.6	(NA)	(NA)
3431	<u>Plumbing Fixtures and Fittings</u> (Enameled-Iron and Metal Sanitary Ware and Other Plumbers' Supplies)..... Establishments primarily engaged in manufacturing enameled-iron, cast-iron, or pressed-metal sanitary ware, such as bathtubs, sinks, lavatories, and laundry tubs; and plumbers' brass goods and fittings such as faucets, spigots, and steam and water traps. Establishments primarily engaged in the manufacture of steam and waterline valves are classified in Industry 3591, Valves and Fittings, Except Plumbing, vitreous and semi-vitreous pottery sanitary ware in Industry 3261, Vitreous Plumbing Fixtures, and vitreous-enameled kitchen, household, and hospital ware in Industry 3461, Vitreous-Enameled Products.	30.6	87	89	34.7	90	92

See footnotes at end of table.

Code	Industry title and description	1954			1947		
		All employ- ees ¹ (1,000)	Industry ratio (percent)		All employ- ees ¹ (1,000)	Industry ratio (percent)	
			Spe- cial- iza- tion ²	Cov- er- age ³		Spe- cial- iza- tion ²	Cov- er- age ³
34	FABRICATED METAL PRODUCTS—Continued						
343	Heating and plumbing equipment—Continued						
3439	Heating and Cooking Equipment, N.E.C. (Includes S.I.C. Industry 3432: Oil Burners, Domestic and Industrial and 3439, Heating and Cooking Apparatus, Except Electric, N.E.C.).....	75.3	84	85	116.8	86	86
	Establishments primarily engaged in manufacturing heating and cooking equipment, n.e.c. Important products of this industry include stoves, ranges, water heaters, warm-air furnaces, domestic steam and hot-water heating apparatus, cast-iron and nonferrous radiators, oil burners, complete gas and oil boiler-burner units, furnace-burner units, boiler-stoker units, incinerators, unit heaters, gas burners, portable ovens, steam tables, and cafeteria food warming equipment. Establishments primarily engaged in manufacturing electric stoves and ranges are classified in Industry 3621, Electrical Appliances; incubators and brooders in Industry 3522, Farm Machinery (Except Tractors); and industrial furnaces and ovens in Industry 3567, Industrial Furnaces and Ovens. Boiler shops primarily engaged in the production of industrial, power, and marine boilers, smoke stacks, heavy tanks and other plate work are classified in Industry 3443, Boiler Shop Products.						
344	Structural metal products.....	284.1	92	91	213.0	(NA)	(NA)
3441	Structural and Ornamental Work (Fabricated Structural Steel and Ornamental Metal Work).....	116.3	89	88	79.1	86	88
	Establishments primarily engaged in manufacturing fabricated iron and steel or other metal for structural purposes, and architectural ornamental work of ferrous and nonferrous metals. Important products of this industry include fabricated structural steel shapes, stairs and staircases, fire escapes, grilles, railings, fences and posts, and portable metal buildings. Establishments primarily engaged in manufacturing metal doors, sash, frames, molding, and trim are classified in Industry 3442, Metal Doors, Sash and Trim, and fabrication work done by construction contractors at the site of construction is classified in Construction Industries.						
3442	Metal Doors, Sash and Trim (Metal Doors, Sash, Frames, Molding and Trim)...	43.3	87	89	23.3	84	87
	Establishments primarily engaged in manufacturing ferrous and nonferrous metal and metal-covered doors and sash, window and door frames, store fronts, molding and trim.						
3443	Boiler Shop Products.....	74.4	82	81	68.2	80	80
	Establishments primarily engaged in manufacturing industrial, power, and marine boilers, smoke stacks, heavy tanks, gas cylinders, and other boiler shop products; and fabricated plate work which involves the cutting, punching, bending, and shaping of steel plates for other industries, or for assembly on the job. Establishments primarily engaged in manufacturing domestic heating and cooking apparatus (including expansion tanks, range boilers, hot water storage tanks, and steel heating boilers) are classified in Industry 3439, Heating and Cooking Equipment, N.E.C.						
3444	Sheet-Metal Work.....	50.2	81	80	42.4	83	82
	Establishments primarily engaged in manufacturing cornices, ventilators, skylights, gutters, and other types of sheet-metal work for buildings (not including fabrication work done by construction contractors at the place of construction), and manufacturing sheet-metal stovepipes, light tanks, bins, furnace casings, etc. Establishments primarily engaged in manufacturing heavy tanks from plate are classified in Industry 3443, Boiler Shop Products, and those primarily engaged in manufacturing domestic heating apparatus such as expansion tanks, range boilers, hot water storage tanks, and tanks for water heaters are classified in Industry 3439, Heating and Cooking Equipment, N.E.C. Establishments performing sheet metal manufacturing operations incidental to their installation or contracting business are classified in nonmanufacturing industries.						

See footnotes at end of table.

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			Spe- cial- iza- tion ²	Cov- er- age ³		Spe- cial- iza- tion ²	Cov- er- age ³
34	FABRICATED METAL PRODUCTS—Continued						
346	Metal stamping and coating.....	183.8	85	(NA)	184.0	(NA)	(NA)
3461	Vitreous-Enameled Products..... Establishments primarily engaged in manufacturing vitreous-enameled kitchen, household, and hospital utensils; table tops; refrigerator, stove and washing machine parts; etc. Establishments primarily engaged in manufacturing enameled-iron plumbing fixtures are classified in Industry 3431, Plumbing Fixtures and Fittings, and those primarily engaged in manufacturing porcelain enameled signs are classified in Industry 3993, Signs and Advertising Displays. Plants included in Industry 3461 differ from those classified in Industry 3465, Enameling and Lacquering, by the nature of the operations performed in the establishments. Industry 3461 establishments are primarily engaged in producing vitreous-enameled products from their own materials, although many of them produce some vitreous-enameled products from materials owned by others. On the other hand, establishments in Industry 3465 are primarily engaged in vitreous-enameling materials owned by others. Industry 3461 covers only vitreous (or porcelain) enameling while Industry 3465 covers both vitreous and other types of enameling (such as baked enameling).	7.3	72	65	11.6	75	67
3463	Metal Stampings (Includes S.I.C. Industry: 3462, Automobile Stampings; and 3463, Stamped and Pressed Metal Products, Except Automobile Stampings).... Establishments primarily engaged in manufacturing metal stampings of ferrous or nonferrous metal such as bottle caps and tops; stamped kitchen, household, and hospital utensils; perforated metal; stamped and pressed machine parts; and automobile stampings such as fenders, tops, hub caps, body parts and trim. Establishments primarily engaged in stamping and spinning metal for the trade are also included in this industry; but establishments primarily engaged in manufacturing stamped vitreous-enameled products are classified in Industry 3461, Vitreous-Enameled Products, and those primarily engaged in assembling complete automobile bodies are classified in Group 371, Motor Vehicles and Equipment. Establishments primarily engaged in manufacturing cast aluminum utensils, including household pressure cookers, are classified in Industry 3361, Nonferrous Foundries; and plastic kitchen articles and commercial closures, in Industry 3971, Plastics Products, N.E.C.	128.2	82	83	133.4	86	81
3465	Enameling and Lacquering (Enameling, Japanning, and Lacquering)..... Establishments primarily engaged in enameling, japanning, and lacquering metal products for the trade. This industry also includes establishments primarily engaged in coating metals with plastic or resinous materials. Establishments in Industry 3465 are engaged primarily in enameling materials owned by others; establishments primarily engaged in manufacturing vitreous-enameled products from their own materials are included in Industry 3461, Vitreous-Enameled Products. In addition, Industry 3465 covers both vitreous and other types of enameling (such as baked enameling) whereas Industry 3461, Vitreous-Enameled Products, covers only vitreous-enameling.	5.5	(11)	(11)	4.0	(11)	(11)
3466	Galvanizing (Galvanizing and Other Hot-Dip Coating)..... Establishments primarily engaged in galvanizing iron and steel sheets or formed products; in coating iron sheets or formed products with aluminum, lead, or zinc; and in retinning cans and utensils. Most of the work done in this industry is done on materials owned by others. Rolling mills engaged in galvanizing, tinning, and other coating are classified in Industry 3312, Steel Works and Rolling Mills and establishments primarily engaged in manufacturing galvanized steel wire, from purchased metal rods or bars, are classified in Industry 3392, Wire Drawing.	3.2	(11)	(11)	2.9	(11)	(11)

See footnotes at end of table.

Code	Industry title and description	1954			1947		
		All employ- ees ¹ (1,000)	Industry ratio (percent)		All employ- ees ¹ (1,000)	Industry ratio (percent)	
			Spe- cial- iza- tion ²	Cov- er- age ³		Spe- cial- iza- tion ²	Cov- er- age ³
34	FABRICATED METAL PRODUCTS—Continued						
346	Metal stamping and coating—Continued						
3467	<u>Engraving on Metal</u> Establishments primarily engaged in engraving, chasing, and etching jew- elry, silverware, notarial seals, and other metal products for the trade, for purposes other than printing. Establishments primarily en- gaged in preparing metal lithographic plates and in printing from such media are classified in Industry 2761, Lithographing; establishments primarily engaged in engraving and etching steel and copper plates and in using these plates to print stationery, visiting cards, etc., are included in Industry 2792, Engraving and Plate Printing; and establish- ments primarily engaged in preparing photoengraved plates (half-tones and line-cuts) are classified in Industry 2793, Photoengraving.	3.6	(11)	(11)	3.5	(11)	(11)
3468	<u>Plating and Polishing</u> (Electroplating, Plating and Polishing)..... Establishments primarily engaged in all types of electroplating, plating, and metal-polishing work. Most of the work done in this in- dustry is done on materials owned by other .	36.1	(11)	(11)	28.6	(11)	(11)
347	Lighting fixtures.....	45.1	90	91	46.9	90	89
3471	<u>Lighting Fixtures</u> Establishments primarily engaged in manufacturing lighting fixtures and equipment of any type, including electric and gas lighting fixtures, carbide, kerosene, and gasoline lamps, and metal reflectors and fittings. Other lighting equipment included in this industry are vehicular lighting equipment, flashlights, and lanterns. Establish- ments primarily engaged in producing glassware for lighting fixtures are classified in Major Group 32, Stone, Clay and Glass Products; electric light bulbs, tubes, and related light sources in Industry 3651, Electric Lamps (Bulbs); electric street traffic signals in In- dustry 3669, Communication Equipment, N.E.C.; and electric signs in Industry 3993, Signs and Advertising Displays.	45.1	90	91	46.9	90	89
348	Fabricated wire products.....	62.6	89	⁵ 57	60.4	(NA)	(NA)
3481	<u>Nails and Spikes</u> Establishments primarily engaged in manufacturing wire and cut nails, brads, spikes, staples, and tacks from purchased wire and plate. Es- tablishments primarily engaged in drawing wire from purchased rods and in manufacturing nails, brads, spikes and staples are classified in Industry 3392, Wire Drawing, and rolling mills manufacturing these products in Industry 3312, Steel Works and Rolling Mills.	2.7	89	⁵ 19	3.4	82	⁵ 18
3489	<u>Wirework, N.E.C.</u> Establishments primarily engaged in manufacturing from purchased wire, ferrous and nonferrous wire products n.e.c. Important products of this industry include fencing, fly screening, cloth and netting, bare wire rope and cable, barbed wire, tire chains, bale ties, concrete- reinforcing wire and mesh, springs, coated welding wire, wire guards and partitions, wire grilles, trays and baskets, and kitchen wire goods. Establishments primarily engaged in manufacturing assembled wire bed springs are classified in Industry 2515, Mattresses, and Bed- springs; establishments primarily engaged in manufacturing insulated wire from purchased wire are classified in Industry 3631, Insulated Wire and Cable; establishments engaged in drawing wire from purchased rods and in manufacturing wire products are classified in Industry 3392, Wire Drawing.	59.9	89	⁵ 63	57.0	91	⁵ 60

See footnotes at end of table.

Code	Industry title and description	1954			1947		
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			Spe- cial- iza- tion ²	Cov- er- age ³		Spe- cial- iza- tion ²	Cov- er- age ³
34	FABRICATED METAL PRODUCTS—Continued						
349	Metal products, n.e.c.....	138.9	91	81	116.1	(NA)	(NA)
3491	<u>Metal Barrels, Drums and Pails</u> (Metal Shipping Barrels, Drums, Kegs and Pails) Establishments primarily engaged in manufacturing ferrous and nonferrous shipping barrels, drums, kegs, and pails. Establishments engaged in manufacturing packer's cans and fluid milk shipping containers are classified in Industry 3411, Tin Cans and Other Tinware; steel gas cylinders in Industry 3443, Boiler Shop Products; and garbage and ash cans in Industry 3463, Metal Stampings. Establishments primarily engaged in manufacturing fiber containers are classified in Industry 2674, Fiber Cans, Tubes, Drums, etc. Establishments primarily engaged in reconditioning metal barrels, drums, and pails are included in Trade Industries.	10.6	82	86	10.9	83	83
3492	<u>Safes and Vaults</u> Establishments primarily engaged in manufacturing safes and vaults (except concrete grave vaults, Industry 3271, Concrete Products), vault doors and linings, safe-deposit boxes and chests, and safe locks. Establishments primarily engaged in manufacturing metal filing cabinets are classified in Industry 2522, Metal Office Furniture.	3.4	87	97	3.8	98	98
3493	<u>Steel Springs</u> Establishments primarily engaged in manufacturing leaf springs, hot-wound springs, coiled flat and torsion bar steel springs. Establishments primarily engaged in manufacturing wire springs are classified in Industry 3489, Wirework, N.E.C., and rolling mills manufacturing steel springs in Industry 3312, Steel Works and Rolling Mills. Important products included in Industry 3493 are: helical and leaf springs for automobiles, locomotive, railway cars, etc.; flat springs made of sheet or strip; and torsion bar springs.	7.1	84	74	7.8	89	68
3494	<u>Bolts, Nuts, Washers and Rivets</u> Establishments primarily engaged in manufacturing bolts, nuts, washers, rivets, turnbuckles, wood screws and toggle bolts. Rolling mills engaged in manufacturing similar products are classified in Industry 3312, Steel Works and Rolling Mills; establishments primarily engaged in manufacturing screw-machine products are classified in Industry 3495, Screw-Machine Products; and plants primarily engaged in manufacturing such notions as eyelets, slide and snap fasteners, hooks and eyes are included in Industry 3964, Needles, Pins and Fasteners. Plants included in Industry 3494 in general are engaged in the manufacture of bolts, nuts, screws, and rivets of standard types and sizes on heading, threading, and nut forming machines. These establishments may be also engaged in the production of special industrial fasteners which require special or added operations or the use of special tools and fixtures. These items include bolts, nuts, screws, etc., of non-standard types and sizes and special fasteners made by stamping and other forming processes. To a lesser extent these plants manufacture standard type bolts, nuts, screws, etc., on automotive and hand operated screw machines.	53.7	91	89	49.2	92	86
3495	<u>Screw-Machine Products</u> Establishments primarily engaged in manufacturing automatic or hand operated screw-machine products from rod, bar, or tube stock of metal, fiber, plastics or other material. Establishments primarily engaged in manufacturing standard bolts, nuts, rivets, screws and other industrial fasteners on screw machines, and those primarily engaged in manufacturing bolts, nuts, etc., on headers, threaders, and nut forming machines are classified in Industry 3494, Bolts, Nuts, Washers, and Rivets. Industry 3495 includes establishments producing a wide variety of items such as small machinery parts, etc., on hand operated and automatic screw machines from rod, bar and tube stock and from castings and forgings. These products are produced almost entirely on a job or order basis.	35.0	93	82	28.6	94	86

See footnotes at end of table.

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		All employ- ees ¹ (1,000)	Industry ratio (percent)		All employ- ees ¹ (1,000)	Industry ratio (percent)	
			Spe- cial- iza- tion ²	Cov- er- age ³		Spe- cial- iza- tion ²	Cov- er- age ³
34	FABRICATED METAL PRODUCTS—Continued						
349	Metal products, n.e.c.—Continued						
3496	<u>Collapsible Tubes</u> Establishments primarily engaged in manufacturing collapsible tubes made of aluminum, tin, and other materials for use as containers for toilet preparations, adhesives, etc. Metal caps, applicators, screw eyes, and spouts for collapsible tubes are also included in this industry; plastic caps are classified in Industry 3971, Plastic Products, N.E.C.	4.3	93	100	3.9	91	100
3497	<u>Metal Foil (Gold, Silver, Tin, Aluminum, and Other Foil)</u> Establishments primarily engaged in manufacturing aluminum, gold, silver, tin, and other foil and leaf, including converted metal foil.	6.7	92	80	4.3	97	76
3499	<u>Fabricated Metal Products, N.E.C. (Fabricated Metal Products, N.E.C.)</u> Establishments primarily engaged in manufacturing metal products not elsewhere classified, including metal novelties and specialties. Specific products of this industry include ammunition boxes, metal strapping, aluminum giftware (hammered), metal bookends, ladders, and fabricated railroad track equipment such as switches, crossings, etc. Establishments primarily engaged in manufacturing castings or forgings are classified in Major Group 33, Primary Metal Industries; hardware in Industry 3429, Hardware, N.E.C.; metal stampings in Industry 3463, Metal Stampings; and machine and equipment parts in Major Group 35, Machinery, Except Electrical, and Major Group 36, Electrical Machinery.	18.1	85	53	7.6	90	60
35	MACHINERY, EXCEPT ELECTRICAL This major group includes establishments engaged in manufacturing machinery and prime movers other than electrical equipment which is in Major Group 36, Electrical Machinery. Machines powered by built-in or detachable electric motors ordinarily are included in this major group with the exception of certain types of small electrical household appliances which are in Major Group 36, Electrical Machinery. Portable tools, both electric and pneumatic powered, are included in this major group, but hand tools are classified in Major Group 34, Fabricated Metal Products.						
351	Engines and turbines.....	82.0	88	84	87.7	(NA)	(NA)
3511	<u>Steam Engines and Turbines (Steam Engines, Turbines, and Water Wheels)</u> Establishments primarily engaged in manufacturing steam engines, steam turbines, water wheels, water turbines, and turbo-generators. Establishments primarily engaged in building or rebuilding locomotives are classified in Industry 3741, Locomotives and Parts. Establishments primarily engaged in manufacturing gas turbines (except aircraft) and parts are classified in Industry 3519, Internal Combustion Engines; motor vehicle engines in Industry 3717, Motor Vehicles and Parts; and aircraft engines in Industry 3722, Aircraft Engines.	30.2	88	87	22.2	82	81
3519	<u>Internal Combustion Engines (Diesel and Semi-Diesel Engines; and Other Internal-Combustion Engines, N.E.C.)</u> Establishments primarily engaged in manufacturing Diesel or semi-Diesel engines, and other internal combustion engines, n.e.c., for stationary, marine, traction, or other uses. This industry also includes establishments primarily engaged in manufacturing outboard motors, gas turbines (except aircraft), and parts for internal combustion engines, except aircraft and motor vehicles. Establishments primarily engaged in manufacturing aircraft engines (including rocket engines) are classified in Industry 3722, Aircraft Engines, and automobile engines, except Diesel automotive engines, in Industry 3717, Motor Vehicles and Parts.	51.8	87	83	65.5	81	78

See footnotes at end of table.

Code	Industry title and description	1954			1947		
		All employ- ees ¹ (1,000)	Industry ratio (percent)		All employ- ees ¹ (1,000)	Industry ratio (percent)	
			Spe- cial- iza- tion ²	Cov- er- age ³		Spe- cial- iza- tion ²	Cov- er- age ³
35	MACHINERY, EXCEPT ELECTRICAL—Continued						
352	Tractors and farm machinery.....	139.1	87	92	171.5	(NA)	(NA)
3521	Tractors.....	64.7	85	93	77.3	83	95
	Establishments primarily engaged in manufacturing wheel-type and track-laying tractors, garden tractors, and parts and attachments for tractors. Establishments primarily engaged in manufacturing industrial trucks, tractors, and trailers used for handling materials in industrial plants, depots, and docks are classified in Industry 3565, Industrial Trucks and Tractors; and truck tractors for highway use in Industry 3717, Motor Vehicles and Parts.						
3522	Farm Machinery, Except Tractors (Agricultural Machinery, Except Tractors). Establishments primarily engaged in manufacturing agricultural machinery and equipment (except tractors) for use in the preparation or maintenance of the soil, planting and harvesting of the crop, preparing crops for market, or for use in performing other agricultural operations and processes. Important products of this industry are: plows and listers, harrows, rollers, pulverizers, stalk cutters, planters, seeders, spreaders, weed burners, sprayers and dusters, combines, haying machinery, lawn mowers, cream separators and butter churns (farm-type), cultivators and weeders, threshers, feed grinders, incubators, barn and barnyard equipment, and parts and attachments for farm machinery. Establishments primarily engaged in manufacturing agricultural hand tools are classified in Group 342, Cutlery, Tools, and Hardware. Establishments primarily engaged in manufacturing industrial food products machinery, including butter churns, cream separators and grain-mill machinery are classified in Industry 3551, Food-Products Machinery; cotton gins and other cotton ginning machinery and equipment in Industry 3559, Special-Industry Machinery, N.E.C.; farm elevators and parts in Industry 3563, Conveyors; and, immersion type farm and dairy milk coolers (mechanically refrigerated) in Industry 3585, Refrigeration Machinery.	74.4	89	90	94.1	89	92
353	Construction and mining machinery.....	109.4	87	85	113.9	(NA)	(NA)
3531	Construction and Mining Machinery (Construction, Mining and Similar Machinery, Except Oil-Field Machinery and Tools).....	75.7	86	81	84.7	85	82
	Establishments primarily engaged in manufacturing heavy machinery and equipment used by the construction and mining industries for portable or fixed-plant operation, dredging, excavating, road and airport construction, ore and rock crushing, screening or washing, ore dressing or concentration. Important products of this industry include cranes (except overhead traveling), hoists, winches, draglines and shovels, mixers and pavers, coal cutting machines, crushers, screening and washing plants, ditchers and trenchers, graders, rollers, tractor-mounted construction machinery, trucks (off-highway type), railway maintenance-of-way equipment, mining drills, and construction and mining machinery parts and attachments. Establishments primarily engaged in manufacturing well-drilling machinery are classified in Industry 3532, Oil-field Machinery and Tools; coal and ore conveyors in Industry 3563, Conveyors; tracklaying and 2- and 4-wheel contractors' tractors in Industry 3521, Tractors.						
3532	Oil-Field Machinery and Tools.....	33.7	89	93	29.2	88	91
	Establishments primarily engaged in manufacturing machinery and tools for use in oil- and gas-fields, or for drilling water wells. Important products of this industry include oil- and gas-field surface and sub-surface drilling equipment; cementing, floating, guiding, and shoe equipment; portable drilling rigs; oil- and gas-field derricks, sub-structures and assemblies; well surveying machinery and equipment; flowing well equipment; and, oil and gas separating, metering, and treating equipment. Establishments primarily engaged in manufacturing oil-well and oil-field pumps are classified in Industry 3561, Pumps and Compressors.						

See footnotes at end of table.

Code	Industry title and description	1954			1947		
		All employ- ees ¹ (1,000)	Industry ratio (percent)		All employ- ees ¹ (1,000)	Industry ratio (percent)	
			Spe- cial- iza- tion ²	Cov- er- age ³		Spe- cial- iza- tion ²	Cov- er- age ³
35	MACHINERY, EXCEPT ELECTRICAL--Continued						
354	Metalworking machinery.....	262.7	92	87	220.9	(NA)	(NA)
3541	<u>Machine Tools</u> Establishments primarily engaged in manufacturing power-driven machine tools that shape metal by grinding or progressively cutting away chips. Important products of this industry include boring, broaching, drilling, gear-cutting and finishing, grinding, milling, and planing machines; lathes, shapers, and slotters; honing and lapping, polishing and buffing, sawing and cutting-off, contour sawing and filing, tapping, threading, and rifling machines; metalworking or primarily metalworking machine tools designed principally for home workshops, garages, and service shops; and replacement and repair parts for machine tools. The rebuilding of machine tools is also included in this industry. Establishments primarily engaged in manufacturing portable power-driven hand tools and machinery for the shaping, pressing, or forging of metal, where the shaping action of such machines is not dependent upon a cutting tool, are classified in Industry 3542, Metalworking Machinery; special dies and tools, die sets, jigs, and fixtures in Industry 3544, Special Dies and Tools; and machinists' tools in Industry 3545, Metalworking Machinery Attachments. Establishments primarily engaged in manufacturing portable power-driven hand tools are classified in Industry 3542, Metalworking Machinery; and woodworking or woodworking-type machines, except hand tools, in Industry 3553, Woodworking Machinery.	81.0	84	93	70.0	77	86
3542	<u>Metalworking Machinery</u> (Metalworking Machinery, Except Machine Tools)..... Establishments primarily engaged in manufacturing machinery for shaping, pressing, forging, or bending metal, where the shaping action of such machines is not dependent upon a cutting tool. Important products of this industry include bending machines; can forming and soldering, and other sheet-metalworking machinery; die casting machines; forging machines, such as drop hammers (impression die), forging hammers (flat die), forging presses, bulldozers, and upsetters; portable power-driven metalworking tools, and flexible-shaft machines; presses (forming, stamping, and punch); riveting machines (not portable); rod and wire forming and fabricating machines; rolling mill machinery and equipment; shears; spring winding and forming machines; acetylene welding and cutting apparatus; wiredrawing machines; and replacement and repair parts. This industry also includes establishments primarily engaged in producing portable power-driven hand tools designed for use with both metal and wood. Establishments primarily engaged in manufacturing electrical welding apparatus are classified in Industry 3617, Electrical Welding Apparatus.	59.5	85	85	55.0	87	87
3544	<u>Special Dies and Tools</u> (Special Dies and Tools, Die Sets, Jigs and Fixtures) Establishments commonly known as contract tool and die shops and primarily engaged in manufacturing, on a job or order basis, special tools and fixtures for use with machine tools, hammers, die-casting machines, and presses. The products of establishments classified in this industry include a wide variety of special toolings, such as dies; punches; die sets and components, and sub-presses; jigs and fixtures; and special checking devices. Establishments primarily engaged in manufacturing cutting dies, except dies for cutting metal, are classified in Industry 3422, Edge Tools, and hand tools (except power-driven) in Industry 3423, Hand Tools, N.E.C.	77.4	86	69	(NA)	(⁶)	(⁶)

See footnotes at end of table.

Code	Industry title and description	1954			1947		
		All employ- ees ¹ (1,000)	Industry ratio (percent)		All employ- ees ¹ (1,000)	Industry ratio (percent)	
			Spe- cial- iza- tion ²	Cov- er- age ³		Spe- cial- iza- tion ²	Cov- er- age ³
35	MACHINERY, EXCEPT ELECTRICAL—Continued						
354	Metalworking machinery—Continued						
3545	Metalworking Machinery Attachments (Attachments and Accessories for Machine Tools and for Other Metalworking Machines, N.E.C.).....	44.9	87	74	(NA)	(6)	(6)
	Establishments primarily engaged in manufacturing cutting tools and other attachments and accessories for machine tools and for other metalworking machinery, n.e.c., and precision measuring tools. Important products of this industry include: (1) attachments for lathes, boring, drilling, and milling machines, and for other machine tools; arbors and collars; broaches; collets or sockets; (2) balancing machines; tools for screw and automatic machines; counterbores; countersinks; countersink-drill combinations; drills; cutters; reamers; threading tools (tape, dies, and pipe-threading tools); and other cutting tools and tool holders; and (3) precision measuring tools (micro-meters and verniers); gauges (plug, ring, snap, and thread); and other measuring tools. Establishments primarily engaged in manufacturing hand tools (except power-driven) are classified in Group 342, Cutlery, Tools, and Hardware, and dies, jigs, and fixtures in Industry 3544, Special Dies and Tools.						
355	Special-industry machinery, n.e.c.....	165.8	87	85	207.3	(NA)	(NA)
3551	Food-Products Machinery.....	33.2	84	86	36.9	89	82
	Establishments primarily engaged in manufacturing machinery for use by the food-products and beverage manufacturing industries in the preparation, canning, or packaging of food products. Important products of this industry include bakers' machinery and equipment (bake ovens, bread-slicing machines, wrapping machines, and dough mixers); canning machinery; chocolate and confectionery machinery; dairy products machinery and equipment, including fluid milk processing machinery, butter, cheese and ice cream machinery, condensed and evaporated milk machinery, and related equipment; flour-mill and grain-mill machinery; packing house machinery; sugar-mill machinery; coffee-roasting and grinding machines, food choppers, grinders, mixers, and slicers; peanut roasters; popcorn machines; and parts and attachments. Establishments primarily engaged in manufacturing refrigeration machinery are classified in Industry 3585, Refrigeration Machinery; household electrical appliances such as mixers, cookers, etc., are classified in Industry 3621, Electrical Appliances.						
3552	Textile Machinery.....	36.6	89	93	53.6	95	93
	Establishments primarily engaged in manufacturing machinery for the textile industries. Important products of this industry include: (1) fiber-to-fabric machinery, such as picker, carding, combing, garnetting and spinning machines, doubling and twisting frames, winders, and beaming, warping, and slashing machines; (2) fabric machinery, such as knitting and braiding machines, looms for weaving, and Jacquard, lace, net embroidery, cordage, and rope machines; (3) machinery for bleaching, dyeing, printing, mercerizing, finishing, and drying stock, yarn, and cloth; and (4) extra parts, attachments, and accessories, not elsewhere classified. Establishments primarily engaged in manufacturing domestic or industrial sewing machines are classified in Industry 3583, Sewing Machines.						
3553	Woodworking Machinery.....	12.0	84	81	16.2	78	77
	Establishments primarily engaged in manufacturing machinery for saw-mills, planing mills, cabinet and furniture makers, pattern makers, and veneer workers; small woodworking machinery for home, shop, and professional craftsmen; and portable electric woodworking tools. Establishments primarily engaged in manufacturing hand tools such as planes, axes, drawknives, and hand saws are classified in Group 342, Cutlery, Tools, and Hardware. Machines designed for use on both wood or metal, such as portable power-driven hand tools are classified in Industry 3542, Metalworking Machinery, and machines designed primarily for use on metal in home workshops, garages and service shops are classified in Industry 3541, Machine Tools.						

See footnotes at end of table.

Code	Industry title and description	1954			1947		
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			Spe- cial- iza- tion ²	Cov- er- age ³		Spe- cial- iza- tion ²	Cov- er- age ³
35	MACHINERY, EXCEPT ELECTRICAL—Continued						
355	Special-industry machinery, n.e.c.—Continued						
3554	<u>Paper-Industries Machinery</u> Establishments primarily engaged in manufacturing machinery for the paper-pulp, paper, and paper-products industries. Establishments primarily engaged in rebuilding pulp- and paper-industries machinery are also included in this industry. Establishments primarily engaged in manufacturing printing-trades machinery are classified in Industry 3555, Printing-Trades Machinery.	15.0	85	86	17.1	85	89
3555	<u>Printing-Trades Machinery</u> (Printing-Trades Machinery and Equipment)..... Establishments primarily engaged in manufacturing machinery and equipment used by the printing and bookbinding trades. Important products of this industry include bookbinding and photoengraving machinery; printers' machinery such as presses, typesetting, typefoundry, electrotyping, and stereotyping machines; engravers' equipment (metal plates, wood blocks, and lithographic stones); printers' rollers, rules, sticks, blocks, and type cases; and type, leads, and slugs. Establishments primarily engaged in manufacturing textile-printing machinery are classified in Industry 3552, Textile Machinery.	22.0	95	90	24.9	95	94
3559	<u>Special-Industry Machinery, N.E.C.</u> Establishments primarily engaged in manufacturing special-industry machinery, n.e.c., such as smelting and refining equipment, cement-making, clay-working, glass-making, cotton-ginning, hat-making, incandescent lamp-making, leather-working, paint-making, rubber-working, tobacco-working, cigar- and cigarette-making, shoe-making, and stone-working machinery.	47.0	81	73	58.6	80	78
356	General industrial machinery.....	223.9	85	81	219.0	(NA)	(NA)
3561	<u>Pumps and Compressors</u> (Pumps, Air and Gas Compressors, and Pumping Equipment)..... Establishments primarily engaged in manufacturing pumps, compressors, and pumping equipment for general industrial use. Important products of this industry include hand- and power-driven pumps, pumps for fluid power systems, air compressors, gas compressors (except ice-making, refrigerating, and air-conditioning units—Industry 3585), spraying and dusting units for metals, paints, and chemicals, and parts and attachments for such equipment. Establishments primarily engaged in manufacturing measuring-and-dispensing pumps for gasoline service station use are classified in Industry 3586, Measuring and Dispensing Pumps; fuel pumps for motor vehicles in Industry 3717, Motor Vehicles, and Parts; and agricultural spray pumps in Industry 3522, Farm Machinery (Except Tractors).	60.3	82	78	56.1	81	85
3562	<u>Elevators and Escalators</u> Establishments primarily engaged in manufacturing passenger or freight elevators, automobile lifts, dumbwaiters, and escalators. Establishments primarily engaged in manufacturing commercial conveyor systems and equipment, including farm elevators, are classified in Industry 3563, Conveyors; and portable elevators (stackers) in Industry 3565, Industrial Trucks and Tractors.	10.3	87	89	10.2	92	91
3563	<u>Conveyors</u> (Conveyors and Conveying Equipment)..... Establishments primarily engaged in manufacturing conveyors and conveying equipment for installation in factories, warehouses, mines, and other industrial and commercial establishments. Important products of this industry include: overhead traveling cranes, monorail systems, farm elevators, gravity and power conveyors, underground mine conveyors, and parts, attachments, and accessories. Establishments primarily engaged in manufacturing passenger or freight elevators, dumbwaiters, and escalators are classified in Industry 3562, Elevators and Escalators; portable elevators (stackers) in Industry 3565, Industrial Trucks and Tractors; and cranes, hoists, and construction power cranes in Industry 3531, Construction and Mining Machinery.	32.4	77	80	24.6	78	80

See footnotes at end of table.

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			Spe- cial- iza- tion ²	Cov- er- age ³		Spe- cial- iza- tion ²	Cov- er- age ³
35	MACHINERY, EXCEPT ELECTRICAL—Continued						
356	General industrial machinery—Continued						
3564	<u>Blowers and Fans</u> (Blowers, Exhaust and Ventilating Fans)..... Establishments primarily engaged in manufacturing blowers, and exhaust, and ventilating fans for general industrial, commercial, and household use, including attic fans, blower-filter units (furnace blowers), fans for mechanical draft, air washers, dust-collection, and air-purification equipment. Establishments primarily engaged in manufacturing complete air-conditioning units are classified in Industry 3585, Refrigeration Machinery, and circulating fans for use on desks, pedestals, or wall brackets in Industry 3621, Electric Appliances.	18.1	83	76	14.8	75	78
3565	<u>Industrial Trucks and Tractors</u> (Industrial Trucks, Tractors, Trailers, and Stackers)..... Establishments primarily engaged in manufacturing industrial trucks, tractors, trailers, stackers, hand lift trucks, hand trailers, dollies, and metal pallets and skids used for handling materials on floors and paved surfaces in and around industrial plants, depots, docks, and terminals. Establishments primarily engaged in manufacturing motor vehicles and motor-vehicle trailers are classified in Group 371, Motor Vehicles and Equipment; wheel-type and track-laying tractors in Industry 3521, Tractors; mining cars in Industry 3531, Construction and Mining Machinery; wood pallets and skids in Industry 2499, Wood Products, N.E.C.; and portable farm elevators in Industry 3563, Conveyors.	15.8	88	83	13.9	84	84
3566	<u>Power-Transmission Equipment</u> (Mechanical Power-transmission Equipment, Except Ball and Roller Bearings)..... Establishments primarily engaged in manufacturing bearings (except ball and roller) and mechanical power-transmission equipment, such as chain drives, variable speed drives, speed reducers, gears, clutches (mechanical, hydraulic, or magnetic) shafts and parts for such equipment. Establishments primarily engaged in producing motor vehicle power-transmission equipment are classified in Industry 3717, Motor Vehicles and Parts; ball and roller bearings in Industry 3593, Ball and Roller Bearings; forged shafts in Industry 3391, Iron and Steel Forgings, and gears and drive chains for motorcycles and bicycles in Industry 3751, Motorcycles and Bicycles.	49.6	88	86	54.0	87	84
3567	<u>Industrial Furnaces and Ovens</u> Establishments primarily engaged in manufacturing electric, coal, gas, oil, and other fuel-fired or steam-heated industrial furnaces and ovens. Important products of this industry include metal-processing and heat-treating furnaces; calcining, cement, and ceramic kilns; lumber-drying kilns; distillation ovens; cremating ovens; paint-baking and lumber-drying ovens; sherardizing ovens; lehrs; and parts and attachments for industrial furnaces and ovens. Establishments primarily engaged in manufacturing domestic and commercial furnaces and ovens, except electric, are classified in Industry 3439, Heating and Cooking Apparatus, N.E.C.; bakery ovens in Industry 3551, Food-Products Machinery; domestic and commercial electric ovens in Industry 3621, Electrical Appliances; and dental laboratory furnaces in Industry 3843, Dental Equipment and Supplies. Establishments primarily engaged in engineering or constructing industrial furnaces or ovens but maintaining no manufacturing facilities are not included in Manufacturing Industries.	8.4	84	84	6.4	86	74
3568	<u>Mechanical Stokers</u> (Mechanical Stokers, Domestic and Industrial)..... Establishments primarily engaged in manufacturing domestic and industrial stokers for anthracite and bituminous coal, either hopper fed, or with a conveyor for direct feed from the bin.	1.1	74	60	4.1	71	74

See footnotes at end of table.

Code	Industry title and description	1954			1947		
		All employ- ees ¹ (1,000)	Industry ratio (percent)		All employ- ees ¹ (1,000)	Industry ratio (percent)	
			Spe- cial- iza- tion ²	Cov- er- age ³		Spe- cial- iza- tion ²	Cov- er- age ³
35	MACHINERY, EXCEPT ELECTRICAL—Continued						
356	General industrial machinery—Continued						
3569	General Industrial Machinery, N.E.C. (General Industrial Machinery and Equipment, Not Elsewhere Classified)..... Establishments primarily engaged in manufacturing machinery and equipment for general industrial use and for which no special classification is provided. Machine shops primarily engaged in producing machine and equipment parts usually on a job or order basis are classified in Industry 3599, Machine Shops, and machine shops engaged exclusively in repair work are classified as Service Industries. Establishments primarily engaged in manufacturing heat exchanger equipment for air conditioning and commercial refrigeration are classified in Industry 3585, Refrigeration Machinery. Industry 3569 covers a wide range of heterogeneous products such as heat exchangers, steam condensers, filters and strainers for internal combustion engines (except automobile), hydraulic jacks, packaging and wrapping machines (except food and tobacco), centrifugals and separators (except cream), gas generating equipment, brake burnishing and washing machines, ice crusher machinery, fire hose (except rubber), fire hose dryers and racks, automatic sprinkler systems, general industrial labeling machines, and magnetic separation equipment.	27.9	80	66	34.8	78	75
357	Office and store machines.....	101.3	80	96	97.8	(NA)	(NA)
3571	Computing and Related Machines (Computing Machines and Cash Registers)..... Establishments primarily engaged in manufacturing adding, calculating, tabulating, and bookkeeping machines; card-punching, sorting, and tabulating machines; and cash registers. Establishments primarily engaged in manufacturing electronic computing machines, coin and currency handling machines, ticket-counting machines, vest pocket and other simple adding or calculating devices, and rebuilt computing machines and cash-registers are also included in this industry. Establishments primarily engaged in manufacturing typewriters, and billing machines without accounting registers, are classified in Industry 3572; Typewriters; office duplicating machines and devices, and autographic registers, in Industry 3579, Office and Store Machines, N.E.C.	56.7	78	93	45.6	94	94
3572	Typewriters..... Establishments primarily engaged in manufacturing typewriters and parts. Important products of this industry include electric and nonelectric standard typewriters, and specialized typewriters and typewriter-principle machines, such as continuous form-handling machines, billing machines without accounting registers, office composing machines and stencil-cutting typewriters.	18.4	80	97	26.6	1490	1497
3576	Scales and Balances..... Establishments primarily engaged in manufacturing weighing devices of all types, including those with automatic computing mechanisms and coin-operated scales.	5.4	90	96	6.5	91	92

See footnotes at end of table.

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			Spe- cial- iza- tion ²	Cov- er- age ³		Spe- cial- iza- tion ²	Cov- er- age ³
35	MACHINERY, EXCEPT ELECTRICAL--Continued						
357	Office and store machines--Continued						
3579	<u>Office and Store Machines, N.E.C.</u> (Includes S.I.C. Industry 3575, Vending, Amusement, and Other Coin Operated Machines and 3579, Office and Store Machines and Devices, N.E.C.).....	20.8	79	90	19.1	89	90
	Establishments primarily engaged in manufacturing store and office machines and devices, n.e.c., such as mimeograph and other duplication devices; addressing and milling machines; check-writing, signing, and canceling machines; perforators and other protective devices; auto-graphic registers and postage meters; automatic merchandising machines (except refrigerated, Industry 3585, Refrigeration Machinery); and, amusement and other coin-operated machines and coin-operated mechanisms for use in such devices. Establishments primarily engaged in manufacturing computing machines and cash registers are classified in Industry 3571, Computing and Related Machines; typewriters in Industry 3572, Typewriters; photocopy equipment and coin-operated photographic apparatus in Industry 3861, Photographic Equipment and Supplies; coin-operated scales and balances in Industry 3576, Scales and Balances; coin-operated phonographs and wire and tape recorders in Industry 3661, Radio and Related Products; clocks and timing mechanisms, except time recording and time stamping machines, in Industry 3871, Watches and Clocks.						
358	Service and household machines.....	196.5	85	90	219.6	(NA)	(NA)
3581	<u>Domestic Laundry Equipment</u>	22.1	93	81	28.4	90	91
	Establishments primarily engaged in manufacturing household type laundry equipment such as washing machines, wringers, driers, and ironers. Establishments primarily engaged in manufacturing commercial laundry equipment are classified in Industry 3582, Laundry and Dry-cleaning Machinery.						
3582	<u>Laundry and Dry-Cleaning Machinery</u> (Commercial Laundry, Dry-Cleaning, and Pressing Machines).....	6.5	83	93	9.1	94	94
	Establishments primarily engaged in manufacturing laundry and dry-cleaning equipment and pressing machines for commercial and industrial use. Important products of this industry include commercial washers, extractors, combination washers and extractors, drying tumblers, ironers, finishing presses, napping machines, stills and filters for dry-cleaning machines, and other laundry and dry-cleaning equipment, parts, accessories, and attachments. Establishments primarily engaged in manufacturing domestic laundry equipment are classified in Industry 3581, Domestic Laundry Equipment.						
3583	<u>Sewing Machines</u>	12.4	91	94	15.3	95	94
	Establishments primarily engaged in manufacturing sewing machines for domestic and industrial use, and sewing machine parts. Establishments primarily engaged in manufacturing sewing machine cases and cabinets are classified in Industry 2511, Wood House Furniture, Not Upholstered; shoe sole stitching machines in Industry 3559, Special Industry Machinery, N.E.C.; and sewing machine needles in Industry 3964, Needles, Pins, and Fasteners.						
3584	<u>Vacuum Cleaners</u>	8.4	80	88	14.9	84	88
	Establishments primarily engaged in manufacturing vacuum cleaners for domestic and industrial use and vacuum cleaner parts and attachments.						

See footnotes at end of table.

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			Spe- cial- iza- tion ²	Cov- er- age ³		Spe- cial- iza- tion ²	Cov- er- age ³
35	MACHINERY, EXCEPT ELECTRICAL—Continued						
358	Service and household machines —Continued						
3585	<u>Refrigeration Machinery</u> (Refrigerators, Refrigeration Machinery and Com- plete Air-conditioning Units).....	128.3	(10)	(10)	128.7	(10)	(10)
	Establishments primarily engaged in manufacturing mechanical and absorp- tion refrigerators for commercial, industrial, and household use, refrigeration machinery, ice-making machinery and equipment, refrigera- ted showcases and cabinets, range-refrigerator combinations, home and farm freezers, drinking-water coolers, mechanically refrigerated farm and dairy milk coolers, bottled beverage coolers, refrigeration com- pressors and compressor units, condensing units, refrigerated automa- tic merchandising machines, dehumidifiers, factory assembled water- cooling towers, automobile air conditioners, evaporative coolers, and complete air-conditioning units for domestic, commercial, and industri- al use.						
	Establishments primarily engaged in manufacturing farm milk coolers, ex- cept mechanically refrigerated, are classified in Industry 3522, Farm Machinery (Except Tractors); compressors, except refrigeration, in Industry 3561, Pumps and Compressors; and soda fountains and beer- dispensing equipment in Industry 3997, Soda-Fountain and Bar Equipment.						
	Establishments primarily engaged in the construction or installation of cooling, freezing, or air-conditioning systems by building contractors or engineering concerns are not included in Manufacturing Industries.						
3586	<u>Measuring and Dispensing Pumps</u>	8.4	69	91	12.1	76	98
	Establishments primarily engaged in manufacturing measuring-and- dispensing pumps, commonly used in service and filling stations for dispensing gasoline, oil, and grease, including grease guns. Es- tablishments primarily engaged in manufacturing pumps, compressors, and pumping equipment for general industrial use are classified in Industry 3561, Pumps and Compressors.						
3589	<u>Service and Household Machines, N.E.C.</u> (Service-Industry and Household Machines, N.E.C.).....	10.4	85	76	11.1	83	82
	Establishments primarily engaged in manufacturing machines and equip- ment, n.e.c., for household use or for use in service industries. Im- portant products of Industry 3589 include automotive maintenance equip- ment such as motor analyzers, wheel balancers, spark plug cleaners, and frame straighteners; household and commercial dishwashing machines; carpet sweepers (except electric vacuum); floor sanding and scrubbing machines; garbage-disposal units. Establishments primarily engaged in manufacturing household laundry equipment are classified in Industry 3581, Domestic Laundry Equipment; commercial laundry machinery in In- dustry 3582, Laundry and Dry-Cleaning Machinery; vacuum cleaners in Industry 3584; Vacuum Cleaners, and household and commercial elec- trical appliances in Industry 3621, Electric Appliances.						
359	Miscellaneous machinery parts.....	261.0	90	88	214.5	(NA)	(NA)
3591	<u>Valves and Fittings, Except Plumbing</u> (Valves and Fittings, Except Plumbers' Brass Goods and Fittings).....	75.0	85	86	79.7	82	90
	Establishments primarily engaged in manufacturing valves for controlling the flow of liquids or gases in pipes and mains, and for machinery, including parts and fittings for such valves. Establishments primarily engaged in manufacturing faucets, spigots, and similar plumbers' brass goods and fittings are classified in Industry 3431, Plumbing Fixtures and Fittings.						

See footnotes at end of table.

Code	Industry title and description	1954			1947		
		All employ- ees ¹ (1,000)	Industry ratio (percent)		All employ- ees ¹ (1,000)	Industry ratio (percent)	
			Spe- cial- iza- tion ²	Cov- er- age ³		Spe- cial- iza- tion ²	Cov- er- age ³
35	MACHINERY, EXCEPT ELECTRICAL—Continued						
359	Miscellaneous machinery parts—Continued						
3592	<u>Fabricated Pipe and Fittings</u> Establishments primarily engaged in cutting, threading, bending, and otherwise fabricating pipe and pipe fittings from purchased pipe. Establishments primarily engaged in manufacturing cast-iron pipe and fittings are classified in Industry 3321, Gray-iron Foundries; welded and heavy-riveted pipe in Industry 3393, Welded and Heavy-Riveted Pipe, and seamless steel pipe in Industry 3312, Steel Works and Rolling Mills. Establishments primarily engaged in manufacturing plumbers' brass goods and fittings are classified in Industry 3431, Plumbing Fixtures and Fittings.	12.7	92	88	10.6	82	83
3593	<u>Ball and Roller Bearings</u> Establishments primarily engaged in manufacturing ball and roller bearings and parts. Establishments primarily engaged in manufacturing bearings, except ball and roller, are classified in Industry 3566, Power-Transmission Equipment.	49.7	98	98	52.2	94	96
3594	<u>Industrial Patterns and Molds</u> Establishments primarily engaged in manufacturing industrial patterns and molds for use with industrial equipment such as plastic-working, rubber-working, glass-working and foundry equipment.	19.9	93	73	9.7	(NA)	(NA)
3599	<u>Machine Shops (Machine Shops, Jobbing and Repair)</u> Establishments primarily engaged in producing machine and equipment parts, n.e.c., from materials owned by them or performing machining operations on materials owned by others. These establishments usually operate on a job or order basis and are equipped with machine tools and other power-driven metalworking machinery capable of manufacturing a wide range of machine and equipment parts. Machine shops classified in this industry are characterized by their method of operation rather than their product, and the fact that they may be primarily engaged in repair work does not exclude them from this classification; however, machine shops engaged exclusively in repair work are classified in repair industries. Although generally characterized by method of operation rather than type of product, establishments primarily engaged in manufacturing the following products are classified in Industry 3599: metal bellows, bushings machined from purchased castings, carburetors, catapults, boiler-tube cleaners, valve cores, hydraulic cylinders, iron flasks, flexible metal hose and tubing, metallic packing (except asbestos-metallic), pistons and piston rings, and intake and exhaust valves for internal combustion engines. Establishments primarily engaged in rebuilding certain products such as machine tools, locomotives, etc., are classified in the same industry as establishments making such new equipment. Establishments primarily engaged in rebuilding other machinery and equipment are classified in Industry 3599. The most important rebuilt equipment included in Industry 3599 consisted of rebuilt automobile parts (automobile carburetors, generators, pumps, valves, etc.).	103.7	88	86	62.4	92	77
36	ELECTRICAL MACHINERY This major group includes establishments engaged in manufacturing machinery, apparatus, and supplies for the generation, storage, transmission, transformation, and utilization of electrical energy. The manufacture of certain types of small electrical household appliances is included in this group, but machinery and equipment as well as other types of electrical appliances, powered by built-in or detachable electric motors are classified in Major Group 35, Machinery, Except Electrical. Establishments primarily engaged in manufacturing lighting fixtures are classified in Industry 3471, Lighting Fixtures; instruments for measuring, controlling and indicating physical characteristics, surgical and dental instruments and electric clocks are classified in Major Group 38, Instruments and Related Instruments, and electric signs in Industry 3993, Signs and Advertising Displays.						

See footnotes at end of table.

Code	Industry title and description	1954			1947		
		All employ- ees ¹ (1,000)	Industry ratio (percent)		All employ- ees ¹ (1,000)	Industry ratio (percent)	
			Spe- cial- iza- tion ²	Cov- er- age ³		Spe- cial- iza- tion ²	Cov- er- age ³
36	ELECTRICAL MACHINERY—Continued						
361	Electrical industrial apparatus.....	340.0	88	91	315.5	(NA)	(NA)
3611	Wiring Devices and Supplies.....	43.2	85	86	39.2	85	86
	Establishments primarily engaged in manufacturing wiring devices (at- tachment plugs and caps, convenience and power outlets, lamp sockets and receptacles, fluorescent starters, and snap switches); wiring supplies (pole-line hardware, conductor connectors, overhead trolley- line materials, and rail bonds for both propulsion and signal circuits); electrical insulators and insulation materials, except porcelain and glass insulators; electrical conduits and fittings; electrical switches and outlet boxes and accessories; and lightning arresters. Establish- ments primarily engaged in manufacturing electric lighting fixtures are classified in Industry 3471, Lighting Fixtures; porcelain insulators in Industry 3264, Porcelain Electrical Supplies; glass insulators in Indus- try 3229, Pressed and Blown Glassware, N.E.C.; knife and time switches in Industry 3616, Electrical Control Apparatus; switches designed for use in vehicles and aircraft in Industry 3641, Engine Electrical Equip- ment; and radio wave-band and similar radio switches in Industry 3661, Radio and Related Products.						
3612	Carbon and Graphite Products (Carbon and Graphite Products for Use in the Electrical Industry).....	8.3	98	94	7.8	95	95
	Establishments primarily engaged in manufacturing lighting carbons; car- bon graphite, and metal-graphite brushes and brush stock; carbon, or graphite electrodes for thermal and electrolytic uses; and other car- bon, graphite, and metal-graphite products for use in the electrical industries.						
3613	Electrical Measuring Instruments (Instruments for Indicating, Measuring, and Recording Electrical Quantities and Characteristics).....	33.0	75	76	20.9	84	80
	Establishments primarily engaged in manufacturing pocket, portable, panelboard, and graphic recording instruments for measuring electricity, such as voltmeters, ammeters, watt meters, watthour meters, demand meters, and other meters and indicating instruments. This industry also includes establishments primarily engaged in manufacturing meter transformers and analyzers for testing the electrical characteristics of internal-combustion engines, radio apparatus, etc. Establishments primarily engaged in manufacturing instruments for measuring and con- trolling mechanical forces (temperature, pressure, rotation, etc.) are classified in Industry 3821, Mechanical Measuring Instruments.						
3614	Motors and Generators (Motors, Generators, and Motor-Generator Sets).....	112.0	82	84	125.3	81	92
	Establishments primarily engaged in manufacturing electric motors (ex- cept starting motors) and power generators; motor-generator sets; rail- way motors and control equipment; and motors, generators, and control equipment for gasoline-electric and oil-electric busses and trucks, in- cluding storage-battery trucks. Establishments primarily engaged in manufacturing turbo-generators are classified in Industry 3511, Steam Engines and Turbines; and starting motors and battery-charging generators for internal combustion engines in Industry 3641, Engine Electrical Equipment. Establishments primari- ly engaged in repairing and rewinding of motors are classified in Ser- vice Industries.						
3615	Transformers (Power and Distribution Transformers).....	41.0	87	94	36.6	85	91
	Establishments primarily engaged in manufacturing power, distribution, and specialty transformers. Important products of this industry are liquid filled and dry type power and distribution transformers; sig- nalling; doorbell, and toy transformers; fluorescent lamp ballasts; lighting transformers; and power regulators, boosters, and reactors. Establishments primarily engaged in manufacturing radio-frequency or voice-frequency transformers, coils, or chokes are classified in In- dustry 3661, Radios and Related Products; instrument, meter, and trip- ping transformers in Industry 3613, Electrical Measuring Instruments; and resistance welder transformers in Industry 3617, Electrical Welding Apparatus.						

See footnotes at end of table.

Code	Industry title and description	1954			1947		
		All employ- ees ¹ (1,000)	Industry ratio (percent) Special- iza- tion ²	Cov- er- age ³	All employ- ees ¹ (1,000)	Industry ratio (percent) Special- iza- tion ²	Cov- er- age ³
36	ELECTRICAL MACHINERY—Continued						
361	Electrical industrial apparatus—Continued						
3616	Electrical Control Apparatus (Switchgear, Switchboard Apparatus, and Industrial Controls).....	79.3	89	91	67.5	86	87
	Establishments primarily engaged in manufacturing switchgear, switchboard apparatus, and industrial electrical controls. Important products of this industry include power switches, circuit breakers, contractors, and similar switchgear for general industrial application; switchboards and cubicles, control and metering panels, power fuse mountings, and similar switchboard apparatus and supplies; and industrial controls such as motor starters and controllers, electromagnetic brakes, and electronic inspection and gauging apparatus and positioning controls.						
	Establishments primarily engaged in manufacturing snap, pushbutton, and tumbler switches are classified in Industry 3611, Wiring Devices, and Supplies; electrical control apparatus for land transportation equipment in Industry 3614, Motors and Generators; rheostats and resistors (except radio) in Industry 3619, Electrical Industrial Apparatus, N.E.C.						
3617	Electrical Welding Apparatus.....	8.2	90	92	7.3	93	89
	Establishments primarily engaged in manufacturing electrical welding apparatus. Important products of this industry include arc welding machines, spot, projection, seam, flash and other resistance welders, welding electrodes, electrode holders, and other welding machinery accessories. Establishments primarily engaged in manufacturing gas welding apparatus are classified in Industry 3542, Metalworking Machinery; coated welding wire in Industry 3489, Wirework, N.E.C.; carbon or graphite welding electrodes in Industry 3612, Carbon and Graphite Products; arc welding protective helmets and shields, in Industry 3842, Surgical Appliances and Supplies; and arc welding protective goggles, in Industry 3851, Ophthalmic Goods.						
3619	Electrical Industrial Apparatus, N.E.C. (Electrical Equipment for Industrial Use, N.E.C.).....	15.0	81	64	10.9	77	53
	Establishments primarily engaged in manufacturing industrial and commercial electrical apparatus and appliances, n.e.c. Important products of this industry include high frequency induction and dielectric heating apparatus; capacitors for industrial use, except fixed and communications; rectifying apparatus (except communication type); and rheostats and resistors (except radio). Establishments primarily engaged in manufacturing household immersion heaters and electric soldering irons are classified in Industry 3621, Electrical Appliances; electronic type components for communications in Industry 3661, Radios and Related Products; and electron tube rectifiers in Industry 3662, Electronic Tubes.						
362	Electrical appliances.....	48.6	76	74	44.1	86	72
3621	Electrical Appliances.....	48.6	76	74	44.1	86	72
	Establishments primarily engaged in manufacturing household and commercial electrical appliances used for heating, cooking, and other purposes such as: ranges, disk stoves, hot plates, cookers, casseroles, roasters, toasters, water heaters, irons, mixers, percolators, circulating fans, air space heaters, soldering irons, dry shavers, bed coverings, heating pads, and commercial steam tables.						
	Establishments primarily engaged in manufacturing domestic laundry machines are classified in Industry 3581, Domestic Laundry Equipment; commercial laundry, dry-cleaning, and pressing machines in Industry 3582, Laundry and Dry-Cleaning Equipment; sewing machines in Industry 3583, Sewing Machines; vacuum cleaners in Industry 3584, Vacuum Cleaners; mechanical and absorption refrigerators in Industry 3585, Refrigeration Machinery; industrial type fans in Industry 3564, Blowers and Fans; and industrial immersion heaters, in Industry 3619, Electrical Industrial Apparatus, N.E.C.						

See footnotes at end of table.

Code	Industry title and description	1954			1947		
		All employ- ees ¹ (1,000)	Industry ratio (percent)		All employ- ees ¹ (1,000)	Industry ratio (percent)	
			Spe- cial- iza- tion ²	Cov- er- age ³		Spe- cial- iza- tion ²	Cov- er- age ³
36	ELECTRICAL MACHINERY—Continued						
363	Insulated wire and cable.....	14.4	96	⁵ 27	20.3	96	⁵ 31
3631	<u>Insulated Wire and Cable</u> Establishments primarily engaged in manufacturing insulated or armored wire and cable from purchased wire. Establishments engaged in drawing wire from purchased rods and bars and which are also engaged in making insulated wire are classified in Industry 3392, Wire Drawing. Industry 3631 also includes establishments primarily engaged in insulating wire and cable and in their further fabrication into other types of wire and cable such as flexible cord sets and appliance wire and cord. However, plants primarily engaged in fabricating flexible cord sets and appliance wire and cord from wire insulated in other establishments are classified in Industry 3699, Electrical Products, N.E.C.	14.4	96	⁵ 27	20.3	96	⁵ 31
364	Engine electrical equipment.....	46.3	85	87	44.5	89	91
3641	<u>Engine Electrical Equipment</u> (Electrical Equipment for Internal-Combustion Engines)..... Establishments primarily engaged in manufacturing electrical equipment for internal-combustion engines. Important products of this industry include starting motors and battery-charging generators for automobiles and aircraft; regulators for battery charging generators; other ignition apparatus, including spark plugs, magnetos, coils, and distributors; and component parts for engine electrical equipment. Establishments primarily engaged in manufacturing electric motors (except starting motors) and electric power generators are classified in Industry 3614, Motors and Generators.	46.3	85	87	44.5	89	91
365	Electric lamps (bulbs).....	22.0	94	99	23.8	94	100
3651	<u>Electric Lamps</u> (Bulbs)..... Establishments primarily engaged in manufacturing electric bulbs, tubes and related light sources. Important products of this industry include incandescent filament lamps, vapor and fluorescent lamps, photoflash and photoflood lamps, and other electric light sources. Establishments primarily engaged in manufacturing electrotherapeutic lamp units for ultraviolet and infrared radiation are classified in Industry 3693, X-ray and Therapeutic Apparatus; electric lighting fixtures in Industry 3471, Lighting Fixtures; glass blanks for bulbs in Industry 3229, Pressed and Blown Glassware, N.E.C.; and electric lamp bases and other electric lamp components (except glass blanks) in Industry 3699, Electrical Products, N.E.C.	22.0	94	99	23.8	94	100
366	Communication equipment.....	445.8	93	96	303.4	(NA)	(NA)
3661	<u>Radios and Related Products</u> Establishments primarily engaged in manufacturing radio and television receiving and transmitting equipment, electrical and magnetic field detection apparatus, light and heat emission detecting apparatus, object detection apparatus (radar), and other apparatus and products associated with radio equipment, including miscellaneous radio parts; phonographs and accessories (except records--Industry 3663, Phonograph Records); and public-address and music-distribution apparatus. Other important products of Industry 3661, include electronic type components for communications, recorders, amplifiers, and audio equipment. Establishments primarily engaged in manufacturing radio receiving and transmitting tubes are classified in Industry 3662, Electronic Tubes; radio, phonograph, and TV cabinets are classified in Major Group 25, Furniture and Fixtures; dictating machines in Industry 3579, Office and Store Machines, N.E.C.; and sound reproducing motion picture projectors in Industry 3861, Photographic Equipment and Supplies.	294.0	(10)	(10)	178.6	(10)	(10)

See footnotes at end of table.

Code	Industry title and description	1954			1947		
		All employ- ees ¹ (1,000)	Industry ratio (percent)		All employ- ees ¹ (1,000)	Industry ratio (percent)	
			Spe- cial- iza- tion ²	Cov- er- age ³		Spe- cial- iza- tion ²	Cov- er- age ³
36	ELECTRICAL MACHINERY—Continued						
366	Communication equipment—Continued						
3662	<u>Electronic Tubes</u> (Electronic Tubes, Except X-Ray)..... Establishments primarily engaged in manufacturing electronic tubes. Products of this industry include cathode ray tubes (including TV picture tubes), transistors and diodes, radio receiving-type tubes, transmitting and industrial type tubes, and electron tube parts (except glass blanks) sold separately. Establishments primarily engaged in manufacturing X-ray tubes are classified in Industry 3693, X-Ray Therapeutic Apparatus.	71.0	97	94	27.7	94	95
3663	<u>Phonograph Records</u> Establishments primarily engaged in manufacturing phonograph records and record blanks. Establishments engaged exclusively in the production of master records are not included within the scope of the Census of Manufactures, but establishments engaged both in the manufacturing (or pressing) of records and in the production of master records are included. However, the statistics for Industry 3663 exclude all costs and payments relating to the production of master records. Royalties and other payments to performers, publishers, the American Federation of Musicians, etc., are not included in the value of shipments for this industry.	6.2	94	97	10.0	96	99
3664	<u>Telephone and Telegraph Equipment</u> Establishments primarily engaged in manufacturing telephone and telegraph equipment, and parts specifically designed for inclusion in telephone and telegraph circuits. Establishments primarily engaged in manufacturing radio-telephone and radio-telegraph apparatus and supplies are classified in Industry 3661, Radios and Related Products and radio tubes in Industry 3662, Electronic Tubes.	64.7	93	96	76.1	94	99
3669	<u>Communications Equipment, N.E.C.</u> Establishments primarily engaged in manufacturing electrical communication equipment, n.e.c., such as electric signalling apparatus, audible signals, burglar alarms, electric traffic signals, and railroad signalling devices.	10.1	87	77	11.0	86	83
369	Electrical products, n.e.c.....	42.0	95	83	44.8	(NA)	(NA)
3691	<u>Storage Batteries</u> Establishments primarily engaged in manufacturing storage batteries. The more important types of storage batteries are starting, lighting and ignition (SLI), motive power, and communication storage batteries (radio, telephone, telegraph and railroad signalling). Establishments primarily engaged in manufacturing battery jars, boxes and separators are classified in other industries.	15.7	100	100	16.6	1490	1499
3692	<u>Primary Batteries</u> (Primary Batteries, Dry and Wet)..... Establishments primarily engaged in manufacturing dry and wet cell primary batteries. Important products of this industry are batteries for flashlights, hearing aids, lanterns, and portable and farm radios.	10.8	98	98	10.3	1490	1498
3693	<u>X-Ray and Therapeutic Apparatus</u> Establishments primarily engaged in manufacturing electrotherapeutic and electromedical apparatus, X-ray apparatus and tubes, and lamps for infra-red and ultra-violet radiation. Establishment primarily engaged in manufacturing non-radio electronic tubes (except X-ray) are classified in Industry 3662, Electronic Tubes.	7.1	81	91	7.7	94	93

See footnotes at end of table.

Code	Industry title and description	1954			1947		
		All employ- ees ¹ (1,000)	Industry ratio (percent)		All employ- ees ¹ (1,000)	Industry ratio (percent)	
			Spe- cial- iza- tion ²	Cov- er- age ³		Spe- cial- iza- tion ²	Cov- er- age ³
36	ELECTRICAL MACHINERY—Continued						
369	Electrical products, n.e.c.—Continued						
3699	Electrical Products, N.E.C..... Establishments primarily engaged in manufacturing electrical products, n.e.c., such as supports, filaments and lead-in wires for electric lamps, electrical hearing aids, extension cords, and Christmas tree lighting outfits. Industry 3699 also includes establishments primarily engaged in producing flexible cord sets and appliance wire and cord from purchased insulated wire and cable. However, wire drawing plants primarily manufacturing flexible cord sets and appliance wire and cord, are classified in Industry 3392, Wire Drawing; and wire insulating plants (not drawing wire) primarily manufacturing flexible cord sets, etc., in Industry 3631, Insulated Wire and Cable.	8.5	89	48	10.3	83	52
37	TRANSPORTATION EQUIPMENT This major group includes establishments engaged in manufacturing equipment for transportation of passengers and cargo by land, air, and water. Important products produced by establishments classified in this major group include motor vehicles, aircraft, ships, boats, railroad equipment, and miscellaneous transportation equipment such as motorcycles, bicycles, and horsedrawn vehicles.						
371	Motor vehicles and equipment.....	695.5	96	98	693.8	(NA)	(NA)
3717	Motor Vehicles and Parts (Includes S.I.C. Industry 3711, Motor Vehicles; 3712 Passenger-car Bodies; and 3714, Motor Vehicle Parts and Accessories). Establishments primarily engaged in manufacturing or assembling passenger automobiles, trucks, commercial cars and busses (except trackless trolleys, Industry 3742) and special purpose motor vehicles such as ambulances, fire engines, taxicabs, scout cars, personnel carriers, amphibian motor vehicles, and selected parts and accessories for motor vehicles. Establishments primarily engaged in manufacturing motor vehicles, on purchased chassis (ambulances, fire engines, etc.) are classified in Industry 3713, Truck and Bus Bodies. Included in Industry 3717 are such parts as passenger-car bodies, motor vehicles engines (except Diesel) brakes, clutches, axles, radiators, differentials, transmissions, wheels and frames, windshield wipers, automotive bumpers, camshafts, connecting rods, crankshaft assemblies, cylinder heads, drive shafts, exhaust systems, fuel systems, heaters, hoods, horns, instrument board assemblies, lubrication systems, mufflers, power-transmission equipment, rear-axle housings, shock absorbers, steering mechanisms, tops (except stamped metal), universal joints, wheel rims, windshield frames, and automobile accessories, not elsewhere classified. A considerable number of components, parts and accessories for motor vehicles are not classified in Industry 3717, but are classified in other Standard Industrial Classification industries based on the characteristic of the product itself rather than the use to which it is put. Among the more important of these are automotive hardware, Industry 3429, Hardware, N.E.C.; automotive stampings, Industry 3463, Metal Stamping; Diesel and semi-Diesel engines, Industry 3519, Internal Combustion Engines; sealed beam and other electric lamps, Industry 3651, Electric Lamps (Bulbs); motor vehicle lighting fixtures, Industry 3471, Lighting Fixtures; bearings, Industry 3566, Power-Transmission Equipment; tire and inner tubes, Industry 3011, Tires and Inner Tubes, automobile glass, Industry 3211, Flat Glass; ignition equipment such as spark plugs, distributors, switches, ignition coils, generators, cranks, motors, etc., Industry 3641, Engine Electrical Equipment; storage batteries, Industry 3691, Storage Batteries; automobile radios, Industry 3661, Radios and Related Products; and carburetors and pistons, Industry 3599, Machine Shops.	649.3	(10)	(10)	645.1	(10)	(10)

See footnotes at end of table.

Code	Industry title and description	1954			1947		
		All employ- ees ¹ (1,000)	Industry ratio (percent)		All employ- ees ¹ (1,000)	Industry ratio (percent)	
			Spe- cial- iza- tion ²	Cov- er- age ³		Spe- cial- iza- tion ²	Cov- er- age ³
37	TRANSPORTATION EQUIPMENT—Continued						
371	Motor vehicles and equipment—Continued						
3713	<u>Truck and Bus Bodies</u> Establishments primarily engaged in manufacturing truck and bus bodies or in producing trucks and busses from purchased chassis. Establishments primarily engaged in manufacturing complete trucks and busses are classified in Census Industry 3717, Motor Vehicles and Parts; and stamped body parts for trucks and busses in Industry 3463, Metal Stampings. Truck and bus bodies built by garages, service stations and other establishments whose activities are primarily nonmanufacturing are excluded from the data for Manufacturing Industries.	18.7	86	87	26.6	79	90
3715	<u>Truck Trailers</u> Establishments primarily engaged in manufacturing truck trailers and tractor-type bus trailers, but not engaged in manufacturing complete trucks and busses. Important products of this industry include complete trailers, (e.g. logging, tank, platform, pole, van, dump, etc.) and trailers and trailer chassis for sale separately. Establishments primarily engaged in manufacturing trailer bodies are classified in Industry 3713, Truck and Bus Bodies, and passenger car trailers in Industry 3716, Automobile Trailers.	16.4	82	93	12.5	81	87
3716	<u>Automobile Trailers (Automobile Trailers For Attachment To Passenger Cars)</u> . Establishments primarily engaged in manufacturing trailers for attachment to passenger cars, but not engaged in manufacturing complete automobiles. Important products of the industry include housing-type trailers; boat, camp, display, and utility-type trailers, and chassis for automobile-type trailers. Establishments primarily engaged in the manufacturing of truck trailers and tractor-type bus trailers are classified in Industry 3715, Truck Trailers, and trailer bodies in Industry 3713, Truck and Bus Bodies.	11.1	99	98	9.6	98	99
372	Aircraft and parts.....	822.5	96	95	219.6	(NA)	(NA)
3721	<u>Aircraft</u> Establishments engaged in manufacturing or assembling complete aircraft such as airplanes, gliders, helicopters, dirigibles, and balloons, and which may also manufacture aircraft parts and auxiliary equipment. Establishments primarily engaged in modifications and conversions of aircraft are also included in this industry. Establishments primarily engaged in manufacturing engines, propellers, and other aircraft parts and auxiliary equipment, but not engaged in manufacturing or assembling complete aircraft are classified in Industries 3722, Aircraft Engines; 3723, Aircraft Propellers; and 3729, Aircraft Equipment, N.E.C., respectively.	457.6	89	99	146.6	(NA)	(NA)
3722	<u>Aircraft Engines</u> Establishments primarily engaged in manufacturing aircraft engines and engine parts, but not engaged in manufacturing or assembling complete aircraft. Important products of this industry include internal-combustion and jet-propulsion engines; engine mount parts; air scoops; turbo superchargers; lubricating, cooling, and exhaust systems; nonelectric starters; aircraft engine pumps; and rocket engines. Establishments primarily engaged in manufacturing Diesel, semi-Diesel and internal combustion engines (except aircraft and motor-vehicle) are classified in Industry 3519, Internal Combustion Engines; and motor-vehicle engines and parts in Industry 3717, Motor Vehicles and Parts.	167.4	93	91	50.4	90	95
3723	<u>Aircraft Propellers</u> Establishments primarily engaged in manufacturing aircraft propellers and propeller parts, but not engaged in manufacturing or assembling complete aircraft. Important products of this industry include variable and fixed pitch propellers and propeller parts such as accumulators, blades, feathering pumps, and governors.	16.5	84	87	7.4	(NA)	(NA)

See footnotes at end of table.

Code	Industry title and description	1954			1947		
		All employ- ees ¹ (1,000)	Industry ratio (percent)		All employ- ees ¹ (1,000)	Industry ratio (percent)	
			Spe- cial- iza- tion ²	Cov- er- age ³		Spe- cial- iza- tion ²	Cov- er- age ³
37	TRANSPORTATION EQUIPMENT—Continued						
372	Aircraft and parts—Continued						
3729	Aircraft Equipment, N.E.C. (Aircraft Parts and Auxiliary Equipment, N.E.C.)	180.9	86	66	15.1	82	38
	Establishments primarily engaged in manufacturing aircraft parts and auxiliary equipment, n.e.c., but not engaged in assembling complete aircraft. Important products of this industry include airframe assemblies, wing assemblies, flaps and dive brakes, elevators, fins, rudders, and other empennage assemblies; alighting assemblies and parts such as landing and beaching gear, pontoons, and landing skis; auxiliary equipment such as deicing equipment, fuel metering systems, aircraft hydraulic systems, bomb racks, turrets and turret drivers, parachutes, targets, link trainers, and other auxiliary equipment specifically adapted for aircraft.						
	Establishments primarily engaged in manufacturing or assembling complete aircraft are classified in Industry 3721, Aircraft; aircraft engines and parts in Industry 3722, Aircraft Engines; aircraft propellers and propeller parts in Industry 3723, Aircraft Propellers; aeronautical instruments in Industry 3811, Scientific Instruments; and aeronautical electrical equipment in Industry 3641, Engine Electrical Equipment.						
	Establishments primarily engaged in manufacturing aircraft hardware are classified in Industry 3429, Hardware, N.E.C.; aviation job stampings in Industry 3463, Metal Stampings; aircraft incandescent lighting equipment in Industry 3471, Lighting Fixtures; aircraft cabin air conditioners in Industry 3585, Refrigeration Machinery; panel type electrical measuring instruments in Industry 3613, Electrical Measuring Instruments; and aircraft engine instruments (except electrical) in Industry 3821, Mechanical Measuring Instruments.						
373	Ships and boats.....	126.4	94	98	149.7	95	99
3731	Ship Building and Repairing.....	109.5	92	99	130.8	94	98
	Establishments primarily engaged in building and repairing all types of ships whether propelled by sail or motor power or towed by other craft. Important products of this industry include passenger and cargo vessels, barges, tankers, fishing trawlers, towboats, tugboats, fireboats, ferries, dredges, yachts, lighters, harbor patrol craft and military ships (battleships, cruisers, aircraft carriers, destroyers, submarines, escort vessels and transports). Shipyards primarily engaged in repair work (including conversion and reconversion of ships) are also included in this industry. Establishments primarily engaged in building and repairing boats are classified in Industry 3732, Boatbuilding and Repairing. Establishments primarily engaged in fabricating structural assemblies or components for ships, or subcontractors engaged in ship painting, joinery, carpentry work, electrical wiring installation, etc., are not classified in this industry. Shipyards which are operated by the Federal Government are also excluded from Industry 3731.						
3732	Boat Building and Repairing.....	16.9	93	85	18.9	83	88
	Establishments primarily engaged in building and repairing all types of boats such as motorboats, sailboats, rowboats, lifeboats, and canoes. Establishments primarily engaged in building and repairing ships are classified in Industry 3731, Ship Building and Repairing and those manufacturing rubber boats, pontoons, and life rafts are classified in Industry 3099, Rubber Industries, N.E.C. Establishments primarily engaged in servicing boats, i.e., rental of dock space, cleaning, storage, etc., or yacht clubs, are excluded from manufacturing and classified in Service Industries.						

See footnotes at end of table.

Code	Industry title and description	1954			1947		
		All employ- ees ¹ (1,000)	Industry ratio (percent)		All employ- ees ¹ (1,000)	Industry ratio (percent)	
			Spe- cial- iza- tion ²	Cov- er- age ³		Spe- cial- iza- tion ²	Cov- er- age ³
37	TRANSPORTATION EQUIPMENT—Continued						
374	Railroad equipment.....	51.6	83	90	91.3	(NA)	(NA)
3741	Locomotives and Parts..... Establishments primarily engaged in building and rebuilding locomotives (including frames and parts) of any type or gauge, including steam, compressed air, straight-electric, storage battery, Diesel-electric, gasoline-electric, and Diesel-mechanical. Establishments primarily engaged in manufacturing rolled steel locomotive wheels, are classified in Industry 3312, Blast Furnaces and Steel Mills; cast gray-iron locomotive wheels in Industry 3321, Gray Iron Foundries; and steel locomotive springs in Industry 3493, Steel Springs. Railroad repair shops engaged in building and rebuilding locomotives are classified in Non-manufacturing Industries.	20.9	82	95	30.4	95	83
3742	Railroad and Street Cars..... Establishments primarily engaged in building and rebuilding railroad, street, and rapid-transit cars and car equipment for operation on rails for freight and passenger service. This industry also includes establishments primarily engaged in manufacturing trackless trolley busses. Establishments primarily engaged in manufacturing mining cars are classified in Industry 3531, Construction and Mining Machinery.	30.7	83	86	60.9	91	(NA)
375	Motorcycles and bicycles.....	7.1	86	92	15.6	87	89
3751	Motorcycles and Bicycles (Motorcycles, Bicycles, and Parts)..... Establishments primarily engaged in manufacturing motorcycles and side cars; motor scooters; bicycles; and motorcycle and bicycle parts such as saddles, seat posts, frames, gears, and handlebars. Establishments assembling motorcycles or bicycles from purchased parts are also included in this industry. Establishments primarily engaged in manufacturing children's vehicles are classified in Industry 3943, Children's Vehicles; and vehicle hardware in Industry 3429, Hardware, N.E.C.	7.1	86	92	15.6	87	89
379	Transportation equipment, not elsewhere classified.....	1.6	92	44	4.6	82	67
3799	Transportation Equipment, N.E.C..... Establishments primarily engaged in manufacturing transportation equipment, n.e.c., such as horse-drawn vehicles (farm wagons and trucks, carriages, sleighs, sulkies, carts, and sleds) and parts; and wheelbarrows and pushcarts. Establishments primarily engaged in manufacturing industrial trucks, tractors, trailers, and stackers are classified in Industry 3565, Industrial Trucks and Tractors, and children's vehicles in Industry 3943, Children's Vehicles.	1.6	92	44	4.6	82	67
38	INSTRUMENTS AND RELATED PRODUCTS This major group includes establishments engaged in manufacturing mechanical measuring, laboratory, and scientific instruments; optical instruments and lenses; surgical, medical, and dental instruments, equipment and supplies; ophthalmic goods; photographic equipment and supplies; watches and clocks. Establishments primarily engaged in manufacturing instruments for indicating, measuring, and recording electrical quantities and characteristics are classified in Industry 3613. Dental laboratories making dentures and artificial teeth to order for the dental profession, and establishments grinding ophthalmic lenses on an individual prescription basis are classified in Trade Industries.						

See footnotes at end of table.

Code	Industry title and description	1954			1947		
		All employ- ees ¹ (1,000)	Industry ratio (percent)		All employ- ees ¹ (1,000)	Industry ratio (percent)	
			Spe- cial- iza- tion ²	Cov- er- age ³		Spe- cial- iza- tion ²	Cov- er- age ³
38	INSTRUMENTS AND RELATED PRODUCTS—Continued						
381	Scientific instruments.....	45.3	77	64	18.4	81	82
3811	<u>Scientific Instruments</u> (Laboratory, Scientific, and Engineering Instru- ments)..... Establishments primarily engaged in manufacturing laboratory, scienti- fic, and engineering instruments such as nautical, navigational, aero- nautical, surveying, drafting, mathematical instruments, and instru- ments for laboratory work and scientific research (except microscopes and telescopes—Industry 3831, Optical Instruments and Lenses). Im- portant products of Industry 3811, include aircraft flight instruments and automatic pilots, surveying and drafting instruments including transits, slide rules, planimeters, integrators, etc.; and miscella- neous types of laboratory and scientific instruments. Establishments primarily engaged in manufacturing surgical and medical instruments are classified in Industry 3841, Surgical and Medical Instruments; dental instruments and equipment in Industry 3843, Surgical Appliances and Supplies; mechanical measuring and controlling instruments in Industry 3821, Mechanical Measuring Instruments; machinists' precision measuring tools in Industry 3545, Metalworking Machinery Attachments; and instru- ments for indicating, measuring, and recording <u>electrical</u> quantities and characteristics in Industry 3613, Electrical Measuring Instruments.	45.3	77	64	18.4	81	82
382	Mechanical measuring instruments.....	69.4	87	79	60.5	84	81
3821	<u>Mechanical Measuring Instruments</u> (Mechanical Measuring and Controlling Instruments)..... Establishments primarily engaged in manufacturing mechanical instruments for indicating, recording, measuring, and controlling temperature, pressure, mechanical motion, rotation, flow, liquid level, humidity, density, acidity, alkalinity, and combustion; dial pressure gauges; physical-property testing apparatus such as hardness, tension, com- pression torsion, ductility, and elasticity testing apparatus; and instruments for household and office use such as thermometers, barometers and rain gauges. Establishments primarily engaged in manu- facturing instruments for indicating, measuring, and recording elec- trical quantities and characteristics are classified in Industry 3613, Electrical Measuring Instruments; watches and clocks in Industry 3871, Watches and Clocks; and measuring and dispensing pumps in Industry 3586, Measuring and Dispensing Pumps.	69.4	87	79	60.5	84	81
383	Optical instruments and lenses.....	12.7	82	77	8.5	93	75
3831	<u>Optical Instruments and Lenses</u> Establishments primarily engaged in grinding optical lenses and prisms, and in manufacturing microscopes, telescopes, field and opera glasses, and related optical instruments such as refractometers, spectrometers, spectroscopes, colorimeters, polariscopes, and optical measuring instruments. Other products included in this industry are photographic and projection lenses and prisms, microprojectors, contour projectors and metallagraphic equipment. Establishments primarily engaged in manufacturing optical glass blanks are classified in Industry 3211, Flat Glass; in the grinding of eyeglass lenses and in manufacture of other ophthalmic goods such as eyeglass frames or fittings, in Industry 3851, Ophthalmic Goods; and those engaged in manufacturing sighting and fire control instrument, but not engaged in manufacturing optical com- ponents, in Industry 1941, Sighting and Fire Control Equipment.	12.7	82	77	8.5	93	75

See footnotes at end of table.

Code	Industry title and description	1954			1947		
		All employ- ees ¹ (1,000)	Industry ratio (percent)		All employ- ees ¹ (1,000)	Industry ratio (percent)	
			Spe- cial- iza- tion ²	Cov- er- age ³		Spe- cial- iza- tion ²	Cov- er- age ³
38	INSTRUMENTS AND RELATED PRODUCTS—Continued						
384*	Medical instruments and supplies.....	38.1	88	86	39.1	(NA)	(NA)
3841	<u>Surgical and Medical Instruments.....</u> Establishments primarily engaged in manufacturing surgical, veterinary, orthopedic, other medical instruments and apparatus. Important products of this industry are surgical knives and blades, suture needles, hypodermic syringes and needles, and diagnostic apparatus such as metabolism and blood pressure apparatus, ophthalmoscopes, otoscopes, systoscopes, etc. Establishments primarily engaged in manufacturing surgical and orthopedic appliances are classified in Industry 3842, Surgical Appliances and Supplies; and electrotherapeutic, electro-medical, and X-ray apparatus in Industry 3693, X-Ray and Therapeutic Apparatus.	6.6	86	75	7.0	83	88
3842	<u>Surgical Appliances and Supplies (Surgical and Orthopedic Appliances and Supplies; and Personal Safety Devices, N.E.C.).....</u> Establishments primarily engaged in manufacturing surgical and orthopedic appliances and supplies, including surgical gut strings; hospital and surgical sterilizers; artificial limbs; fracture appliances; elastic hosiery, arch supports, and other foot appliances; abdominal supporters, braces, and trusses; sanitary napkins; bandages; surgical gauze and dressings; adhesive tapes and medicated plasters; and personal safety appliances and supplies, n.e.c., gas masks, first aid kits, respirators. Establishments primarily engaged in manufacturing surgical and medical instruments are classified in Industry 3841, Surgical and Medical Instruments; work clothing in Major Group 23, Apparel; rubber clothing, including gloves and shoes in Major Group 30, Rubber Products, leather products, including straps, gloves and shoes in Major Group 31, Leather Products; industrial goggles in Industry 3851, Ophthalmic Goods. Establishments which produce orthopedic appliances primarily according to the specifications of individual prescriptions are classified in Retail Trade.	24.5	85	85	23.1	81	91
3843	<u>Dental Equipment and Supplies.....</u> Establishments primarily engaged in manufacturing dental instruments, mechanical devices, and other equipment and supplies for use by dentists. Dental laboratories making dentures and artificial teeth to order for the dental profession are classified in Service Industries.	7.1	95	94	9.1	97	94
385	Ophthalmic goods.....	18.5	83	94	22.6	86	97
3851	<u>Ophthalmic Goods.....</u> Establishments primarily engaged in grinding ophthalmic lenses, and in manufacturing other ophthalmic goods such as eyeglass frames or fittings. Other products of this industry are industrial goggles; eye protectors; mountings and parts for frames and goggles; sun or glare glasses and goggles and sun glass frames. Retail establishments fitting eyeglasses to individual order and establishments primarily engaged in grinding lenses to prescription order and in the sale of other ophthalmic supplies are classified in Trade Industries.	18.5	83	94	22.6	86	97

See footnotes at end of table.

Code	Industry title and description	1954			1947		
		All employ- ees ¹ (1,000)	Industry ratio (percent)		All employ- ees ¹ (1,000)	Industry ratio (percent)	
			Spe- cial- iza- tion ²	Cov- er- age ³		Spe- cial- iza- tion ²	Cov- er- age ³
38	INSTRUMENTS AND RELATED PRODUCTS—Continued						
386	Photographic equipment.....	59.1	90	95	55.6	93	97
3861	Photographic Equipment and Supplies.....	59.1	90	95	55.6	93	97
	Establishments primarily engaged in manufacturing photographic apparatus, equipment and supplies. Important products of this industry include apparatus such as still cameras, motion picture cameras, projection apparatus, photocopy and microfilm machines; equipment such as plate and film holders, tripods, film reels, developing tanks and machines, enlargers, and motion picture screens; and supplies such as sensitized film paper and plates; and prepared developers, fixers and toners. Establishments primarily engaged in manufacturing photographic paper stock (unsensitized), paper mats, mounts, and folders are classified in Major Group 26, Pulp, Paper and Products; chemicals for photographic or technical purposes in Major Group 28, Chemicals and Products; photographic glass in Major Group 32, Stone, Clay, and Glass Products; and photographic lenses in Industry 3831, Optical Instruments and Lenses. Establishments primarily engaged in developing or processing film or respooling film are classified as nonmanufacturing and excluded from the Census of Manufactures.						
387	Watches and clocks.....	29.5	82	90	40.2	(NA)	(NA)
3871	Watches and Clocks (Watches, Clocks and Parts, Except Watchcases).....	25.7	82	90	34.6	97	98
	Establishments primarily engaged in manufacturing clocks (including electric), watches, mechanisms for clock-work-operated devices, and clocks and watch parts, except watch crystals. This industry includes establishments primarily engaged in assembling clocks and watches from purchased movements and cases. Establishments primarily engaged in manufacturing watchcases are classified in Industry 3872, Watchcases, glass crystals in Industry 3231, Products of Purchased Glass, and unbreakable crystals in Industry 3971, Plastics Products, N.E.C., time-recording clocks, time-stamp machines and watchmen's clocks in Industry 3579, Office and Store Machines, N.E.C. The purchase of complete watches and the attachment of straps or bands thereto is not a manufacturing activity. This activity is classified in Trade Industries.						
3872	Watchcases.....	3.8	86	85	5.6	87	94
	Establishments primarily engaged in the manufacture of watchcases, for sale as such. Establishments primarily engaged in producing complete watches by assembling purchased movements with watchcases of their own manufacture are classified in Industry 3871, Watches and Clocks.						
39	MISCELLANEOUS MANUFACTURES						
	This major group includes establishments primarily engaged in manufacturing products not classified in any other manufacturing major group. Industries in this group fall into the following categories: jewelry, silverware and plated ware; musical instruments; toys, sporting and athletic goods; pens, pencils, and other office and artists' materials; buttons, costume novelties, miscellaneous notions, fabricated plastics; products; brooms and brushes; morticians' goods; and other miscellaneous manufacturing industries.						

See footnotes at end of table.

Code	Industry title and description	1954			1947		
		All employ- ees ¹ (1,000)	Industry ratio (percent)		All employ- ees ¹ (1,000)	Industry ratio (percent)	
			Spe- cial- iza- tion ²	Cov- er- age ³		Spe- cial- iza- tion ²	Cov- er- age ³
39	MISCELLANEOUS MANUFACTURES—Continued						
391	Jewelry, silverware, and plated ware.....	48.0	93	96	55.2	(NA)	(NA)
3911	<u>Jewelry (Precious Metal)</u> Establishments primarily engaged in manufacturing jewelry and other articles (to be worn on or carried about the person) made of precious metals with or without precious stones, including cigarette cases and lighters; vanity cases and compacts; trimmings for umbrellas and canes; and jeweled settings and mountings. Establishments primarily engaged in manufacturing jewelry from semiprecious metals, such as filled gold, rolled gold plate, filled palladium, rolled palladium plate, and sterling silver, are also included in this industry. Establishments primarily engaged in manufacturing costume jewelry from nonprecious metal (including base metals electroplated with gold, silver, etc.) and other materials are classified in Industry 3961, Costume Jewelry.	23.5	93	96	25.6	92	95
3912	<u>Jewelers' Findings</u> (Jewelers' Findings and Materials)..... Establishments primarily engaged in manufacturing unassembled jewelry parts, and stock-shop products such as sheet, wire, and tubing for use in the manufacture of jewelry. Establishments primarily engaged in lapidary work are classified in Industry 3913, Lapidary Work.	5.4	92	91	6.1	92	93
3913	<u>Lapidary Work</u> Establishments primarily engaged in all types of lapidary work, including cutting and polishing diamonds and other precious stones; drilling pearls; recutting and setting stone; preparing jewels for instruments, tools, and for watches and chronometers; and preparing real and imitation stones for settings.	1.8	97	91	1.7	98	98
3914	<u>Silverware and Plated Ware</u> Establishments primarily engaged in manufacturing flatware (including knives, forks, and spoons), hollow ware, toilet ware, ecclesiastical ware, and related products made of sterling silver; of metal plated with silver, gold, or other metal; of stainless steel; of nickel-silver; or of pewter. "Flatware" is defined in the Census as all knives, forks, spoons, etc., made wholly of metal, including stainless steel knives, forks, and spoons, and carving sets with metal handles. Knives, forks, spoons, etc., with handles of materials other than metal are included in Industry 3421, Cutlery.	17.3	91	97	21.8	98	97
393	Musical Instruments and parts.....	15.4	96	96	16.9	(NA)	(NA)
3931	<u>Pianos</u> Establishments primarily engaged in manufacturing complete pianos, with or without player attachments. Included in this industry are all types of pianos: vertical, grand, spinet, player, and coin-operated. Establishments primarily engaged in manufacturing piano parts are classified in Industry 3933, Piano and Organ Parts.	5.8	88	100	7.0	94	100
3932	<u>Organs</u> Establishments primarily engaged in manufacturing complete pipe organs, reed organs, electronic organs, and organs with electrical amplification. Establishments primarily engaged in manufacturing organ parts are classified in Industry 3933, Piano and Organ Parts.	1.8	98	74	1.3	85	70
3933	<u>Piano and Organ Parts</u> (Piano and Organ Parts and Materials)..... Establishments primarily engaged in manufacturing piano and organ parts and materials. Included in this industry are plants primarily engaged in manufacturing such parts as piano strings, plates, keys, actions, keyboards, back frames, pedal attachments, hammers, sounding boards, organ reeds, pipes, stops, knobs, and music rolls. Establishments primarily engaged in manufacturing complete pianos are classified in Industry 3932, Pianos, and complete organs in Industry 3932, Organs.	3.0	95	88	3.2	95	82

See footnotes at end of table.

Code	Industry title and description	1954			1947		
		All employ- ees ¹ (1,000)	Industry ratio (percent)		All employ- ees ¹ (1,000)	Industry ratio (percent)	
			Spe- cial- iza- tion ²	Cov- er- age ³		Spe- cial- iza- tion ²	Cov- er- age ³
39	MISCELLANEOUS MANUFACTURES—Continued						
393	Musical Instruments and parts—Continued						
3939	<u>Musical Instruments, N.E.C.</u> (Musical Instruments, Parts and Materials, N.E.C.).....	4.9	88	95	5.4	93	90
	Establishments primarily engaged in manufacturing all kinds of musical instruments, parts, and materials, n.e.c. Included in this industry are such musical instruments as accordions, bells, chimes, cymbals, drums, harps, mandolins, ocarinas, octophones, piccolos, saxophones, trumpets, ukuleles, violins, zithers, etc., and musical accessories and parts such as reed mouthpieces, music stands, drummers' traps, etc. Establishments primarily engaged in manufacturing pianos are classified in Industry 3931, Pianos; organs in Industry 3932, Organs; piano and organ parts in Industry 3933, Piano and Organ Parts; instrument cases in Industry 3986, Jewelry and Instrument Cases; and toy musical instruments in Industry 3941, Games and Toys.						
394	Toys and sporting goods.....	88.6	93	91	75.5	(NA)	(NA)
3941	<u>Games and Toys, N.E.C.</u> (Games and Toys, Except Dolls, and Children's Vehicles).....	38.2	95	89	27.1	92	90
	Establishments primarily engaged in manufacturing indoor games and game sets for adults and children, and mechanical and nonmechanical toys. Important products of this industry include such games as chess, checkers, dominoes, puzzles, and other indoor games; and toys such as toy furniture, doll carriages and carts, toy books, construction sets, mechanical trains, toy guns and air rifles, and other mechanical games and toys. These games and toys may be made of wood, metal, plastic, or paper.						
	Establishments primarily engaged in manufacturing dolls are classified in Industry 3942, Dolls; children's outdoor wheel goods, and vehicles in Industry 3943, Children's Vehicles; sporting and athletic goods in Industry 3949, Sporting and Athletic Goods; playing cards in Industry 2699, Paper and Board Products, N.E.C.; rubber toys, including balloons and balls, in Industry 3099, Rubber Industries, N.E.C.; and children's books, except toy books, in Major Group 27, Printing and Publishing.						
3942	<u>Dolls</u>	15.1	92	97	9.8	89	98
	Establishments primarily engaged in manufacturing dolls, doll parts, and doll clothing. Establishments primarily engaged in manufacturing stuffed toy animals are also included in this industry. Establishments primarily engaged in manufacturing doll wigs are classified in Industry 3994, Hairwork.						
3943	<u>Children's Vehicles</u>	6.3	76	90	8.8	81	79
	Establishments primarily engaged in manufacturing baby carriages, strollers, and go-carts; children's velocipedes and tricycles, coaster wagons, play cars, sleds, and other children's outdoor wheel goods and vehicles.						
3949	<u>Sporting and Athletic Goods</u> (Sporting and Athletic Goods, N.E.C.).....	28.9	90	86	29.8	94	90
	Establishments primarily engaged in manufacturing sporting and athletic goods, n.e.c., such as fishing tackle; golf and tennis goods; baseball, football, basketball, and boxing equipment; roller skates and ice skates; gymnasium and playground equipment; billiard and pool tables; and bowling alleys and equipment. Also included in this industry are establishments primarily engaged in manufacturing athletic and sporting gloves, shin guards, helmets, shoulder pads, chest protectors, and similar items.						
	Establishments primarily engaged in manufacturing athletic uniforms are classified in Major Group 23, Apparel and Related Products; athletic shoes in Industry 3141, Footwear; rubber footwear in Industry 3021, Rubber Footwear; socks in Industry 2252, Seamless-Hosiery Mills; fire-arms and small arms ammunition in Major Group 19, Ordnance and Accessories; and rubber balls (except bowling balls, golfballs, tennis balls, footballs, and basketballs) in Industry 3099, Rubber Industries, N.E.C.						

See footnotes at end of table.

Code	Industry title and description	1954			1947		
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			Spe- cial- iza- tion ²	Cov- er- age ³		Spe- cial- iza- tion ²	Cov- er- age ³
39	MISCELLANEOUS MANUFACTURES—Continued						
395	Office supplies.....	28.2	91	91	31.4	(NA)	(NA)
3951	<u>Pens and Mechanical Pencils</u> (Pens, Mechanical Pencils, and Pen Points)..... Establishments primarily engaged in manufacturing fountain pens, stylo- graphic pens, mechanical pencils, pen points, penholders, and parts for pens and mechanical pencils. Ball-point type pens and refills are also included in this industry. Establishments primarily engaged in manu- facturing lead pencils and refill leads for mechanical pencils are classified in Industry 3952, Lead Pencils and Crayons.	10.9	89	95	15.6	93	95
3952	<u>Lead Pencils and Crayons</u> Establishments primarily engaged in manufacturing lead pencils, pencil leads, and crayons. Establishments primarily engaged in manufacturing mechanical pencils are classified in Industry 3951, Pens and Mechanical Pencils, and rubber erasers in Industry 3099, Rubber Industries, N.E.C.	5.0	88	94	6.3	91	90
3953	<u>Hand Stamps and Stencils</u> (Hand Stamps, Stencils, and Brands)..... Establishments primarily engaged in manufacturing rubber and metal hand stamps, dies, and seals; steel letters and figures; stencils for use in painting or marking; and branding irons. Also included in this indus- try are hand presses for seals and marking dies, and time stamps with- out clockwork mechanisms.	5.7	90	89	4.6	89	89
3954	<u>Artists' Materials</u> Establishments primarily engaged in manufacturing materials and equip- ment for art work, such as airbrushes, drawing tables and boards, palettes, sketch boxes, pantographs, artists' colors and waxes, pyrography goods, drawing inks, and drafting materials. Establishments primarily engaged in manufacturing drafting instruments are classified in Industry 3811, Scientific Instruments.	1.9	84	76	1.4	79	74
3955	<u>Carbon Paper and Inked Ribbons</u> Establishments primarily engaged in manufacturing carbon paper for typewriters, sales books, etc.; spirit or gelatin process stencil paper; and inked ribbons for typewriters, adding machines, cash reg- isters, etc.	4.7	93	83	3.7	1490	1490*
396	Costume Jewelry and notions.....	66.7	91	94	66.0	(NA)	(NA)
3961	<u>Costume Jewelry</u> (Costume Jewelry and Costume Novelties, Except Precious Metal)..... Establishments primarily engaged in manufacturing costume jewelry, costume novelties, and ornaments made of all materials, except precious metal and precious or semiprecious stones (Industry 3911, Jewelry, Precious Metal). Establishments primarily engaged in manufacturing costume jewelry from base metal which is electroplated with gold, sil- ver, chromium, etc., are also included in Industry 3961, Costume Jewelry.	27.7	95	95	25.4	90	91
3962	<u>Artificial Flowers</u> (Feathers, Plumes, and Artificial Flowers)..... Establishments primarily engaged in manufacturing artificial flowers, fruits, and foliage made from all materials except glass (Industry 3231, Products of Purchased Glass); in producing fancy feathers, plumes, and articles made principally of feathers and plumes; and in curling, dye- ing, and renovating ostrich feathers for the trade.	7.3	97	98	7.1	97	99
3963	<u>Buttons</u> Establishments primarily engaged in manufacturing buttons, button parts, and button blanks and molds, of all materials except precious metal and precious or semiprecious stone (Industry 3911, Jewelry, Precious Metal).	8.5	92	89	10.6	93	94

See footnotes at end of table.

Code	Industry title and description	1954			1947		
		All employ- ees ¹ (1,000)	Industry ratio (percent)		All employ- ees ¹ (1,000)	Industry ratio (percent)	
			Spe- cial- iza- tion ²	Cov- er- age ³		Spe- cial- iza- tion ²	Cov- er- age ³
39	MISCELLANEOUS MANUFACTURES—Continued						
396	Costume jewelry and notions—Continued						
3964	Needles, Pins, and Fasteners (Needles, Pins, Hooks and Eyes, and Similar Notions)..... Establishments primarily engaged in manufacturing notions such as machine and hand needles, pins, hooks and eyes, eyelets, buckles, and slide and snap fasteners.	23.2	82	91	23.0	91	89
397	Plastics products, n.e.c.....	92.0	90	84	58.4	91	89
3971	Plastics Products, N.E.C. (Fabricated Plastics Products, N.E.C.)..... Establishments primarily engaged in molding primary plastics for the trade and manufacturing finished plastics products, n.e.c. Establishments primarily engaged in manufacturing plastics materials in the form of sheets, rods, tubes, granules, powders or liquids or vinyl and polyethylene unsupported film and sheeting from resins produced in the same plant are classified in Industry 2823, Plastics Materials. Plants classified in this industry are fabricators (extruders, laminators, calenderers, molders) and manufacture products from materials chemically synthesized in plants classified in Industry 2823, Plastics Materials. Industry 3971 is a "residual" type industry and the products of this industry are limited to those which are not classified elsewhere. For example, electrical wiring devices and supplies made from plastics materials are classified in Industry 3611, Wiring Devices and Supplies; plastic jewelry cases in Industry 3986, Jewelry and Instrument Cases; plastic fishing rods in Industry 3949, Sporting and Athletic Goods; plastic shower curtains in Industry 2392, Housefurnishing, N.E.C.; and plastic radio and television cabinets in Industry 2519, Household Furniture, N.E.C.	92.0	90	84	58.4	91	89
398	} Miscellaneous manufactures.....	357.2	(NA)	(NA)	160.0	(NA)	(NA)
399							
3981	Brooms and Brushes..... Establishments primarily engaged in manufacturing household, industrial, and street-sweeping brooms; and brushes such as paint brushes, tooth-brushes, toilet brushes, and household and industrial brushes. Establishments primarily engaged in manufacturing mops and dusters are included in Industry 2392, Housefurnishings, N.E.C.; those manufacturing rubber brushes in Industry 3099, Rubber Industries, N.E.C.; those manufacturing artists' air brushes in Industry 3954, Artists' Materials.	16.8	91	92	18.6	94	97
3982	Cork Products..... Establishments primarily engaged in manufacturing cork products from whole or ground cork. Important products of this industry include bottle corks, life preservers, insulating materials, tile, and other articles made of cork. Establishments primarily engaged in manufacturing linoleum and cork floor coverings are classified in Industry 2274, Hard Surface Floor Coverings, and cork gaskets in Industry 3293, Gaskets and Asbestos Insulation.	2.1	81	69	2.5	88	75
3983	Matches..... Establishments primarily engaged in manufacturing matches, regardless of the material used.	6.2	100	98	7.4	⁸ 100	100
3984	Candles..... Establishments primarily engaged in manufacturing candles from fatty acids, or from mineral and animal waxes.	3.0	87	93	2.4	91	87

See footnotes at end of table.

Code	Industry title and description	1954			1947		
		All employ- ees ¹ (1,000)	Industry ratio (percent)		All employ- ees ¹ (1,000)	Industry ratio (percent)	
			Spe- cial- iza- tion ²	Cov- er- age ³		Spe- cial- iza- tion ²	Cov- er- age ³
39	MISCELLANEOUS MANUFACTURES—Continued						
398	} Miscellaneous manufactures—Continued						
399							
19							
3985	Fireworks and Pyrotechnics.....	2.6	89	89	3.3	97	96
	Establishments primarily engaged in manufacturing fireworks of all kinds, flares, flashlight bombs, and railroad torpedoes and fuses. Establishments primarily engaged in manufacturing safety fuses and detonating caps are classified in Industry 2826, Explosives.						
3986	Jewelry and Instrument Cases.....	8.0	85	92	7.2	85	80
	Establishments primarily engaged in manufacturing compacts and vanity cases, chests for silverware, and other cases, fancy boxes, and trays for jewelry, instruments, cutlery, eyeglasses, combs, cigarettes, pipes, toilet sets, etc. Establishments primarily engaged in manufacturing similar cases of leather are classified in Industry 3172, Small Leather Goods and of precious metals in Group 391, Jewelry, Silverware and Plated Ware.						
3987	Lamp Shades.....	5.0	93	96	4.5	93	93
	Establishments primarily engaged in manufacturing lamp shades of all materials except glass (Industry 3229, Pressed and Blown Glassware, N.E.C.), and metal (Industry 3471, Lighting Fixtures).						
3988	Morticians' Goods.....	16.7	97	97	22.4	90	97
	Establishments primarily engaged in manufacturing caskets, coffins, burial cases, and coffin shipping cases, whether of wood or other material (except concrete--Industry 3271, Concrete Products); morticians' supplies and accessories such as burial garments, gloves, slippers, casket linings, and embalming fluids; and morticians' paraphernalia and equipment.						
3991	Beauty and Barber-Shop Equipment (Beauty-Shop and Barber-Shop Equipment)...	1.7	92	71	3.2	77	68
	Establishments primarily engaged in manufacturing special furniture, devices, and equipment for use in beauty shops and barber shops. Important products of this industry include the following items for beauty and barber-shop use: hair clippers, hair curlers, hair dryers, heat masks, hydraulic chairs, lather mixers, massage machines, permanent-wave equipment and machines, sterilizers, and vibrators. Establishments primarily engaged in manufacturing soaps, shampoos, cosmetics, permanent wave solutions, etc., are classified in Major Group 28, Chemicals and Allied Products; and manicure scissors and implements in Industry 3421, Cutlery.						
3992	Furs, Dressed and Dyed.....	13.5	(11)	(11)	6.9	(11)	(11)
	Establishments primarily engaged in scraping, currying, tanning, bleaching, and dyeing pelts.						
3993	Signs and Advertising Displays.....	33.6	93	92	28.5	95	88
	Establishments primarily engaged in manufacturing electrical, mechanical, cut-out, or plate signs and advertising displays, including neon signs and advertising novelties. Establishments primarily engaged in manufacturing electric signal equipment are classified in Industry 3669, Communication Equipment, N.E.C.; and lighting fixtures in Industry 3471, Lighting Fixtures. Sign-painting shops doing business on a custom basis and establishments primarily engaged in providing advertising services or the erection and maintenance of signs are excluded from manufacturing and classified in Service Industries.						
3994	Hairwork.....	1.7	96	97	1.2	95	99
	Establishments primarily engaged in manufacturing wigs, toupees, transformations, switches, and related articles made largely from human hair, but in some cases from animal hair or various fibers. Establishments primarily engaged in making wigs for dolls are also included in this industry.						

See footnotes at end of table.

Code	Industry title and description	1954			1947		
		All employ- ees ¹ (1,000)	Industry ratio (percent)		All employ- ees ¹ (1,000)	Industry ratio (percent)	
			Spe- cial- iza- tion ²	Cov- er- age ³		Spe- cial- iza- tion ²	Cov- er- age ³
39	MISCELLANEOUS MANUFACTURES—Continued						
398 } 399 } 19 }	Miscellaneous manufactures—Continued						
3995	<u>Umbrellas, Parasols, and Canes</u> Establishments primarily engaged in manufacturing umbrellas, parasols, canes, and trimmings, frames, handles, and other parts.	3.2	95	92	3.6	97	100
3996	<u>Tobacco Pipes (Tobacco Pipes and Cigarette Holders)</u> Establishments primarily engaged in manufacturing tobacco pipes, and cigarette and cigar holders. Establishments primarily engaged in manufacturing tobacco pipe stems and bits of hard rubber are classified in Industry 3099, Rubber Industries, N.E.C.	1.5	99	98	3.1	(D)	(D)
3997	<u>Soda-Fountain and Bar Equipment (Soda-Fountain and Beer-Dispensing Equipment)</u> Establishments primarily engaged in manufacturing soda fountains and beer-dispensing equipment; and tanks, siphons, and other parts and accessories for such equipment. Establishments primarily engaged in manufacturing commercial refrigeration equipment, including dispensing equipment, are classified in Industry 3585, Refrigeration Machinery.	1.4	83	74	2.7	83	76
3999	<u>Miscellaneous Products, N.E.C. (Miscellaneous Fabricated Products, N.E.C.)</u> . Establishments primarily engaged in manufacturing portable fire extinguishers, models and patterns except paper and industrial; theatrical scenery and advertising curtains; braided articles; holiday goods; military insignia; identification plates, badges, emblems, and tags; and many other small articles not elsewhere classified. Establishments primarily engaged in wool pulling, and in dressing hair and bristles are also included in this industry. Establishments primarily engaged in manufacturing paper patterns, are classified in Industry 2699, Paper and Board Products, N.E.C., and patterns and molds for industrial use in Industry 3594, Industrial Patterns and Molds.	20.8	84	88	22.7	89	92
1900	<u>Ordnance and Accessories, N.E.C., Including Small Arms and Ammunition</u> (Includes S.I.C. Industries 1911 to 1999 Ordnance and Accessories)..... Establishments primarily engaged in manufacturing ordnance and accessories, n.e.c.	229.2	(NA)	(NA)	(NA)	(NA)	(NA)
1951	<u>Small Arms</u> Establishments primarily engaged in manufacturing small firearms having a bore 30MM (or 1.18 inches) and under. Important products of this industry include machine guns and other automatic arms, rifles, carbines, pistols, revolvers, shotguns, pyrotechnic pistols and projectors, machine gun mounts, and parts for small firearms. Establishments primarily engaged in manufacturing artillery and mortars having a bore over 30 MM (or over 1.18 inches) and component parts, are classified in Group 1900, Other Ordnance and Accessories, N.E.C.	13.8	(NA)	(NA)	10.5	(NA)	(NA)
1961	<u>Small Arms Ammunition</u> Establishments primarily engaged in manufacturing ammunition for small arms having a bore 30 MM (or 1.18 inches) and under. Establishments primarily engaged in manufacturing ammunition except for small arms are classified in Group 1900, Other Ordnance and Accessories, N.E.C. Blasting and detonating caps, and safety fuses in Industry 2826, Explosives, and fireworks in Industry 3985, Fireworks and Pyrotechnics.	28.5	(NA)	(NA)	8.1	(NA)	(NA)

See footnotes on page App. A-94.

Footnotes for Appendix A

NA Not available.

(D) Withheld to avoid disclosing data for individual companies.

¹The average total employment figure for 1954 is based on data reported for four months (March, May, August and November), except for industries with significant seasonal variations. For such industries (indicated by footnote 1), the employment figure is based on the average of the mid-month total for each of the 12 months of the year. For 1947, the employment figure for all industries represents averages of reported employment for the 12 months of the year.

²Ratio of value of primary products shipped by the industry to total product shipments (primary and secondary) by the industry. Unless otherwise specified, the value of miscellaneous receipts is excluded from this computation.

³Ratio of value of primary products shipped by the industry to total shipments of these products by all manufacturing industries.

⁴1947 ratios for Industries 2011 and 2013 cannot be computed separately owing to the lack of necessary data. On a combined basis (Industries 2011 and 2013 taken together) the 1947 specialization and coverage ratios are 96 and 99 percent respectively. The comparable ratios for 1954 are 98 and 99 percent respectively.

⁵The low coverage ratio reflects industry classifications which are based on manufacturing process rather than products. The coverage ratio would be much higher if compared to shipments by process defining the industry rather than to shipments by all manufacturing industries.

⁶1954 Census industry was combined in 1947 Census publications; comparable ratios on a combined basis are as follows:

Industry	1954 ratio		1947 ratio	
	Special-ization	Coverage	Special-ization	Coverage
2612 and 2613.....	100	100	100	100
2811 and 2819.....	89	80	87	80
2822 and 2829.....	82	86	81	86
3544 and 3545.....	89	73	90	80

⁷1947 Industry 2037 includes Industries 2036 and 2037. Although 1947 data for Industry 2037 have not been retabulated, the ratios shown are believed to be approximately correct. 1947 employment and ratios for Industry 2036, however, are not available.

⁸Specialization ratio is based on percentage of value of primary products to total shipments, including primary and secondary products and miscellaneous receipts (contract and commission work on materials owned by others, scrap and salable refuse, repair, etc.)

⁹The value of shipments of the industry contains significant duplication of such shipments within the industry (see Introduction). The ratios shown are based on estimates of unduplicated totals and are generally minimum percentages.

¹⁰Relationships not computed because of significant duplication in shipments within the industry for which estimates are not available.

¹¹Relationships not meaningful because of the predominance of miscellaneous receipts, particularly receipts for contract and commission work on materials owned by others.

¹²In 1947 a number of textile mills (Major Group 22) producing sheets and pillowcases reported such shipments as gray broad woven fabrics. This resulted in an understatement of the 1947 total value of housefurnishings and an overstatement of the coverage ratio for Industry 2392. In addition the change in reporting of fabricating departments of textile mills results in some noncomparability of the coverage ratios for 1954 and 1947.

¹³In 1954 data for edible and inedible stearin were reported separately and classified as primary, respectively, to Industry 2011 and Industry 2889. Since such distributions could not be made from the 1947 data, the 1947 coverage ratio, computed as 39 percent, is not directly comparable with 1954.

¹⁴These are minimum percentages. The exact percentage cannot be shown without disclosing figures for individual companies.

Appendix B

COMPARISON OF 1954 AND 1947 CENSUS OF MANUFACTURES INDUSTRY CLASSIFICATIONS

This appendix describes the principal changes in scope and content of 1947 and 1954 manufacturing industries as well as revisions of the 1945 edition of the Standard Industrial Classification approved by Bureau of the Budget prior to the 1954 Census. The 1954 Census is based on the November 1945 edition of the Standard Industrial Classification as amended by the Bureau of the Budget prior to that Census. For the 1954 Census, the manufacturing division comprises 20 major industry groups (two-digit groups ranging from codes 20 to 39 inclusive; group 19 is combined with group 39); 142 industry groups (three-digit codes); and 446 individual industries (four-digit codes). This represents an increase from the 1947 Census of one 3-digit group (Group 241, Logging Camps and Logging Contractors) and a decrease of seven 4-digit industries. The decrease in the number of industries reflects primarily consolidations of smaller and less significant industries.

As a whole the scope and content of 1954 and 1947 Census industries are in substantial agreement. It should be noted that both in 1954 and 1947 separate central administrative or auxiliary units of multi-establishment companies are not included in the operating manufacturing establishment totals. However, in 1954 unlike 1947, they are included in the "all manufacturing" totals shown in the Summary and State volumes. The principal changes between the industry classifications followed in the 1954 Census and those in the 1947 Census publication or the 1945 edition of the SIC Manual are discussed below:

A. The amended Standard Industrial Classification added the following establishments to the scope of manufacturing:

1. Establishments processing milk (pasteurizing, homogenizing, vitaminizing and bottling) as well as producing other dairy products are included in Group 202, Dairy Products, whether or not the processing establishments are also engaged in the route distribution of milk. In 1947 such plants were included in Trade Industries; however, supplemental data were collected from plants processing milk provided they were also engaged in producing other dairy products. These data were tabulated separately on the basis of the plant's principal manufacturing activity, except for fluid milk and cream, and excluded from manufacturing totals.

2. Establishments primarily engaged in the production of fresh (not frozen) packaged oysters and other seafood, formerly classified in Wholesale Trade, are now included in Industry 2036, Packaged Seafood.

3. Apparel and knitting jobbers and leather converters who assign materials to contract factories for fabrication for their account are included in manufacturing industries. Jobbers assigning materials fabricated on a cut-make-trim basis are classified in Major Group 23, Apparel and Related Products; jobbers supplying yarns to commission knitters in Group 225, Knitting Mills; converters assigning hides and skins for tanning and finishing in Industry 3111, Leather Tanning and Finishing. Since these apparel jobbers and leather converters were included in the scope of the 1947 Census, the revision in the Standard Industrial Classification does not affect the comparability of 1954-1947 Census data.

B. In addition to the expanded scope of manufactures arising from the amendments to the Standard Industrial Classification, the 1954 Census included the following types of establishments

which had been excluded from the 1947 Census due primarily to the difficulties involved in obtaining adequate mailing lists:

1. Logging camps and contractors (in 1954 classified in Industry 2411).

2. Sawmills producing less than 200,000 board feet of lumber (in 1954 classified in Industry 2421).

3. Gum naval stores produced in fire stills, output of which in 1947 was estimated at fifteen percent and by 1954 had declined to less than two percent of the total output of Industry 2863.

C. As a result of clarifications of the scope of manufactures in the 1945 edition of the Standard Industrial Classification, the following activities included in the 1947 Census have been excluded from the 1954 Census. The exclusion of these activities has had little effect on the overall comparability of data.

1. Retail multi-outlet bakeries producing bakery products at each location for direct sale to consumers on the premises were included in 1947 Census Industry 2051 and in Retail Trade in 1954.

2. Wool combing jobbers (establishments having wool combed for them on contract) were included in 1947 Industry 2211 and classified in Trade Industries in 1954.

3. Coke ovens owned and operated by Public Utilities were included in 1947 Industry 2932 and excluded from the scope of the 1954 Census of Manufactures, Business, and Mineral Industries.

D. The amended Standard Industrial Classification established a number of separate industries by dividing existing industries; conversely, it eliminated a number of four-digit industries by combination. Other amendments include the transfer of products from one industry to another. Since many of these amendments were consistent with Census procedures followed in 1947, the 1954-1947 data are generally comparable. Shifts of product classification are described in the text material preceding the applicable industry in the Industry Volume.

Table A below shows industries which have been significantly amended from the 1945 edition of the Industrial Classification and their 1954 Census of Manufactures equivalents—including approved Census rearrangements of the amended Standard Industrial Classification.

Table B below compares industry classifications used in the publication of the 1954 Census of Manufactures with those followed in the 1947 Census. It includes all industries which have been changed significantly in content from 1947; other industry codes and content remain substantially unchanged from 1947. The first column lists the 1954 Census industry code; the second column the equivalent 1947 industry code (an asterisked code means that only part of the 1947 industry is included). The industry titles shown are the 1954 and 1947 Census short industry titles. 1947 Census equivalent whole or parts of 1954 industries are indented below the corresponding 1954 Census titles and the following details are shown where applicable: (1) reference to the specific part of the 1947 Census industry covered and (2) reference to other 1954 industries into which the 1947 industry was distributed. The last four columns contain the 1954 and 1947 Census totals which comprise the retabulated industry data consisting of number of employees and value added by manufacture. Since the 1947 retabulated data includes adjustments to previously published data they may differ from figures shown in the 1947 Census of Manufactures.

Table A.--AMENDMENTS TO THE 1945 STANDARD INDUSTRIAL CLASSIFICATION

1954 Industry Classifications		1945 Standard Industrial Classifications	
2011	Meat packing plants.....	{	2011 Meat packing plants
		{	2012 Custom slaughtering, wholesale
2013 ¹	Prepared meats.....	{	2013 Prepared meats
		{	2014 Sausage casings
202	Dairy products.....	{	202 Dairy Products
		{	5052 pt Dairy products, (wholesale milk processors)
		{	5452 pt Retail milk dealers (processors of fluid milk)
2036	Packaged seafood.....	{	2037 pt Frozen fruits, vegetables and seafoods (frozen seafood). See also 2037
		{	5046 pt Fish and seafoods (fresh, not frozen, packaged fish)
2037	Packaged fruits and vegetables.....	{	2037 pt Frozen fruits, vegetables and seafoods (except frozen seafoods). See also 2036
2099	Food preparations, n.e.c.....	{	2096 Vinegar and cider
		{	2099 Food preparations, n.e.c.
2212 ¹	Yarn mills, wool, except carpet.....	{	2221 pt Yarn mills (except cotton and synthetic). See also 2224
2213 ¹	Woolen and worsted fabrics.....	{	2232 Woolen and worsted fabrics
2216 ¹	Finishing wool textiles.....	{	2262 Finishing wool textiles
2224 ¹	Yarn mills, cotton system.....	{	2221 pt Yarn mills (except wool). See also 2212
2233 ¹	Cotton broad-woven fabrics.....	{	2231 pt Broad-woven fabric mills (except synthetic). See also 2234
2234 ¹	Synthetic broad-woven fabrics.....	{	2231 pt Broad-woven fabric mills (except cotton). See also 2233
2299 ²	Textile goods, n.e.c.....	{	2296 Linen goods
		{	2297 Jute goods, except felt
		{	2299 Textile goods
2421	Sawmills and planing mills.....	{	2421 Sawmills and planing mills
		{	2429 Special-product sawmills, n.e.c.
2519	Household furniture, n.e.c.....	{	2513 Reed and rattan furniture
		{	2519 Household furniture, n.e.c.
2833 ¹	Medicinal chemicals, including botanicals.....	{	2832 Botanical products
		{	2833 Medicinal chemicals
2865	Tanning and dyeing materials.....	{	2864 Natural dyeing materials
		{	2865 Natural tanning materials
2889	Animal oils, n.e.c.....	{	2885 Marine animal oils
		{	2889 Animal oils, n.e.c.
2999	Products of petroleum and coal, n.e.c.....	{	2991 Fuel briquets and packaged fuel
		{	2999 Products of petroleum and coal
3295	Minerals, ground and treated.....	{	3294 Natural graphite: ground, refined or blended
		{	3295 Minerals, ground and treated
3299	Nonmetallic mineral products.....	{	3296 Sand-lime brick, block, and tile
		{	M.G. 32 pt Stone, clay and glass products
3312	Blast furnaces and steel mills.....	{	3311 Blast furnaces
		{	3312 Steel works and rolling mills
3339	Primary nonferrous metals, n.e.c.....	{	3335 Primary magnesium
		{	3339 Primary nonferrous metals, n.e.c.
3439 ¹	Heating and cooking equipment, except electric..	{	3432 Oil burners
		{	3439 Heating and cooking equipment, except electric, n.e.c.
3463 ¹	Metal stampings.....	{	3462 Automobile stampings
		{	3463 Stamped and pressed metal products, except automobile stampings
	Classified according to product ¹	{	3464 Powder metallurgy
3544	Special dies and tools.....	{	3543 Cutting tools, jigs, fixtures, etc.
3545	Metalworking machine attachments.....	{	3575 Coin operated machines
		{	3579 Office and store machines, n.e.c.
3579 ¹	Office and store machines, n.e.c.....	{	3998 pt Models and patterns, except paper patterns (Industrial Patterns). See also 3999
3594	Industrial patterns and molds.....	{	3711 Motor vehicles
		{	3712 Passenger car bodies
		{	3714 Motor vehicle parts and accessories
3717 ¹	Motor vehicles and parts.....	{	3998 pt Models and patterns (except industrial). See also 3594
		{	3999 Miscellaneous products, n.e.c.
3999	Miscellaneous products, n.e.c.....	{	3999 Miscellaneous products, n.e.c.

¹Represents 1954 Census combinations and rearrangements rather than amended Standard Industrial Classifications.²Industry 2296 has been combined with 2299 in the revised Standard Industrial Classification. For comparability with 1947, the Census also included Industry 2297 in the combination.

Table B.--DERIVATION OF 1947 CENSUS OF MANUFACTURES INDUSTRY DATA COMPARABLE WITH DATA FOR 1954 INDUSTRY CLASSIFICATIONS

Industry code		Industry title	1954		1947	
1954	1947		All employees, number ¹ (1,000)	Value added by manufacture (\$1,000)	All employees, number ¹ (1,000)	Value added by manufacture (\$1,000)
MAJOR GROUP 20--FOOD AND KINDRED PRODUCTS						
2013	.....	Prepared meats (including manufacturers' wholesale branches)..	n.a.	377,981	44.5	234,758
	2013	Prepared meats (including manufacturers' wholesale branches).....	...	...	39.0	221,855
	2825*	Synthetic fibers (synthetic sausage casings). See also 2825.....	...	...	5.5	12,903
2021	.....	Creamery butter.....	21.0	136,953	27.1	138,217
	2021	Creamery butter.....	...	...	20.6	107,248
	n.m.	Creamery butter and fluid milk processors.....	...	...	6.5	30,969
2022	.....	Natural cheese.....	13.9	88,716	12.8	65,062
	2022	Natural cheese.....	...	...	12.3	63,257
	n.m.	Natural cheese and fluid milk processors.....	...	...	.5	1,805
2023	.....	Concentrated milk.....	13.3	170,566	18.3	156,739
	2023	Concentrated milk.....	...	...	1.0	148,771
	n.m.	Concentrated and fluid milk processors.....	...	...	17.3	7,968
2024	.....	Ice cream and ices.....	36.5	327,898	46.7	279,724
	2024	Ice cream and ices.....	...	...	1.2	228,049
	n.m.	Ice cream, ices, and fluid milk processors.....	...	...	45.5	51,675
2025	.....	Special dairy products.....	7.3	56,965	7.5	48,429
	2025	Special dairy products.....	...	...	7.4	47,843
	n.m.	Special dairy products and fluid milk processors.....	...	...	.1	586
2026	n.m.	Fluid milk processors.....	14.1	98,940	n.a.	n.a.
2027	n.m.	Fluid milk processors and other dairy products.....	177.3	1,376,698	n.a.	n.a.
2036	.....	Packaged seafood.....	12.2	45,657	(²)	(²)
	2037*	Frozen foods (frozen seafoods). See also 2037.....	...	...	n.a.	n.a.
	n.m.	Fresh packaged seafood.....	...	...	n.a.	n.a.
2037	.....	Frozen fruits and vegetables.....	21.4	148,517	(²)	(²)
	2037*	Frozen foods (excluding frozen seafoods). See also 2036..	...	...	n.a.	n.a.
2099	.....	Food preparations, n.e.c.....	72.0	806,298	59.6	392,623
	2090 ³	Liquid, frozen, and dried eggs.....	...	...	9.8	32,209
	2096	Vinegar and cider.....	...	...	1.0	3,503
	2099	Food preparations, n.e.c.....	...	...	48.8	356,911
MAJOR GROUP 22--TEXTILE MILL PRODUCTS						
2211	.....	Scouring and combing plants.....	7.0	35,084	8.4	36,920
	2211*	Scouring and combing plants (excluding wool scouring converters). See also n.m.....	...	...	8.4	36,920
2224	.....	Yarn mills, cotton and silk system.....	85.3	298,833	121.4	446,761
	2224	Yarn mills, cotton system.....	...	...	92.3	326,839
	2225	Yarn mills, silk system.....	...	...	1.7	5,853
	2233*	Cotton broad-woven fabrics (cotton and man-made tire cord and tire fabrics). See also 2233.....	...	...	27.4	114,069
2233	.....	Cotton broad-woven fabrics.....	296.2	1,127,507	330.2	1,448,972
	2233*	Cotton broad-woven fabrics (excluding cotton and man-made tire cord and tire fabrics). See also 2224.....	...	...	330.2	1,448,972
2295	.....	Coated fabrics, except rubberized.....	8.5	80,294	8.6	52,491
	2295*	Coated fabrics, except rubberized (excluding unsupported film). See also 3971.....	...	...	8.6	52,491
2299	.....	Textile goods, n.e.c.....	9.0	54,115	7.6	32,730
	2297	Jute (except felt), and linen goods.....	...	...	5.5	21,644
	2299	Textile goods, n.e.c.....	...	...	2.1	11,086
MAJOR GROUP 23--APPAREL AND OTHER FABRICATED TEXTILE PRODUCTS						
2337	.....	Women's suits, coats, and skirts.....	96.0	529,623	82.7	477,360
	2335	Women's suits and coats.....	...	...	74.4	438,876
	2336	Women's skirts.....	...	...	8.3	38,484
2363	.....	Children's coats.....	14.4	72,601	11.0	50,841
	2363*	Children's coats (excluding children's skirts). See also 2369.....	...	...	11.0	50,841

See footnotes at end of table.

Table B.--DERIVATION OF 1947 CENSUS OF MANUFACTURES INDUSTRY DATA COMPARABLE WITH DATA FOR 1954 INDUSTRY CLASSIFICATIONS--Con.

Industry code		Industry title	1954		1947	
1954	1947		All employees, number ¹ (1,000)	Value added by manufacture (\$1,000)	All employees, number ¹ (1,000)	Value added by manufacture (\$1,000)
		MAJOR GROUP 22--TEXTILE MILL PRODUCTS--Continued				
2369	Children's outerwear, n.e.c.....	30.6	121,863	14.8	50,645
2369		Children's outerwear, n.e.c.....	...	...	13.6	44,248
2363*		Children's coats (children's skirts). See also 2363.....	...	...	1.2	6,397
		MAJOR GROUP 24--LUMBER AND PRODUCTS, EXCEPT FURNITURE				
2431	Millwork plants.....	68.7	374,518	59.8	266,452
2431*		Millwork plants (excluding retail lumber yards). See also n.m.....	...	...	56.9	253,322
2561*		Window and door screens (wood storm doors and sash). See also 2561.....	...	...	2.9	13,130
		MAJOR GROUP 25--FURNITURE AND FIXTURES				
2519	Household furniture, n.e.c.....	1.3	7,815	1.7	7,738
2513		Reed and rattan furniture.....	...	...	.8	3,697
2519		Household furniture, n.e.c.....	...	...	.9	4,041
2532	Professional furniture.....	5.5	38,228	5.2	25,674
2532*		Professional furniture (excluding beauty and barber-shop- equipment). See also 3991.....	...	...	5.2	25,674
2561	Window and door screens.....	4.4	32,630	4.2	19,166
2561*		Window and door screens (excluding wood and metal storm doors and sash). See 2431 and 3442.....	...	...	4.2	19,166
		MAJOR GROUP 26--PAPER AND ALLIED PRODUCTS				
2612	Paper and paperboard mills.....	142.2	1,429,659	134.2	947,868
2612*		Paper and board mills (excluding building paper and board mills). See also 2613.....	...	...	134.2	947,868
2613	Building paper and board mills.....	16.4	155,415	13.4	99,007
2612*		Paper and board mills (building paper and board mills). See also 2612.....	...	...	13.4	99,007
		MAJOR GROUP 28--CHEMICALS AND ALLIED PRODUCTS				
2811	Sulfuric acid.....	3.8	66,175	3.1	31,097
2819*		Inorganic chemicals, n.e.c. (sulfuric acid). See 2819 and n.m.....	...	...	3.1	31,097
2819	Inorganic chemicals, n.e.c.....	97.0	1,069,335	39.5	280,219
2819*		Inorganic chemicals, n.e.c. (excluding sulfuric acid). See 2811 and n.m.....	...	...	39.5	280,219
2822	Intermediates and organic colors.....	32.7	362,305	33.6	259,771
2829*		Organic chemicals, n.e.c. (intermediates, dyes, color lakes and toners). See also 2829.....	...	...	33.6	259,771
2823	Plastics materials.....	41.1	583,224	28.6	197,558
2823		Plastics materials.....	...	...	28.2	195,869
2825*		Synthetic fibers (cellulose caps, bands and sponges). See also 2825.....	...	...	.4	1,689
2825	Synthetic fibers.....	61.1	717,226	69.7	433,285
2825*		Synthetic fibers (excluding synthetic sausage casings and cellulose caps, bands and sponges). See 2013 and 2823...	...	...	69.7	433,285
2829	Organic chemicals, n.e.c.....	67.5	1,171,165	51.9	456,319
2829*		Organic chemicals, n.e.c. (excluding intermediates, dyes, color lakes and toners). See also 2822.....	...	...	51.9	456,319
2832	Medicinal chemicals, including botanicals.....	11.5	138,877	13.1	119,525
2832		Botanical products.....	...	...	.7	9,009
2833		Medicinal chemicals.....	...	...	12.4	110,516
2863	Gum naval stores.....	.5	2,473	4.6	42,634
2863		Gum naval stores, steam distilled.....	...	...	.6	2,634
(4)		Gum naval stores, fire distilled.....	...	...	(4)	(4)
2889	Animal oils, n.e.c.....	2.3	22,079	2.2	16,849
2885		Marine animal oils.....	...	...	2.0	15,033
2889		Animal oils, n.e.c.....	...	...	.2	1,816

See footnotes at end of table.

Table B.--DERIVATION OF 1947 CENSUS OF MANUFACTURES INDUSTRY DATA COMPARABLE WITH DATA FOR 1954 INDUSTRY CLASSIFICATIONS--Con.

Industry code		Industry title	1954		1947	
1954	1947		All employees, number ¹ (1,000)	Value added by manufacture (\$1,000)	All employees, number ¹ (1,000)	Value added by manufacture (\$1,000)
		MAJOR GROUP 28--CHEMICALS AND ALLIED PRODUCTS--Continued				
2894	Glue and gelatin.....	6.8	64,771	7.9	66,255
2894	Glue and gelatin.....	...	...	5.3	45,346
2899*	Chemical products, n.e.c. (household adhesives and cements). See also 2899.....	...	...	2.6	20,944
2899	Chemical products, n.e.c.....	21.4	266,627	17.6	159,514
2899*	Chemical products, n.e.c. (excluding adhesives, cements, brake fluids, etc.). See 2894 and 2992.....	...	...	17.6	159,514
		MAJOR GROUP 29--PETROLEUM AND COAL PRODUCTS				
2932	Byproduct coke ovens.....	31.9	371,380	29.7	221,352
2932*	Byproduct coke ovens (excluding byproduct coke ovens owned by Public Utilities). See also n.m.....	...	...	29.7	221,352
2992	Lubricants, n.e.c.....	8.2	85,063	8.0	80,289
2992*	Lubricants, n.e.c. (excluding lubricant wholesalers). See also n.m.....	...	...	6.1	66,725
2899*	Chemical products, n.e.c. (brake fluids, etc.). See also 2899.....	...	...	1.9	13,564
2999	Petroleum and coal products, n.e.c.....	2.0	22,754	1.7	17,354
2991	Fuel briquets and packaged fuel.....	...	...	1.2	9,093
2999	Petroleum and coal products, n.e.c.....	...	...	.5	8,261
		MAJOR GROUP 32--STONE, CLAY, AND GLASS PRODUCTS				
3231	Products of purchased glass.....	21.6	192,644	23.9	129,857
3231*	Products of purchased glass (excluding glass cutters). See also n.m.....	...	...	23.9	129,857
3295	Minerals: ground or treated.....	7.7	89,725	8.9	55,556
3294	Graphite: ground or blended.....	...	...	.9	4,945
3295	Minerals: ground or treated.....	...	...	8.0	50,611
3299	Nonmetallic mineral products, n.e.c.....	4.5	30,340	2.6	13,855
3296	Sand-lime products.....	...	...	.3	1,186
3299	Nonmetallic mineral products, n.e.c.....	...	...	2.3	12,669
		MAJOR GROUP 34--FABRICATED METAL PRODUCTS				
3439	Heating and cooking equipment, n.e.c.....	75.3	587,523	116.8	633,675
3432	Oil burners.....	...	...	5.3	43,894
3439	Heating and cooking apparatus, n.e.c.....	...	...	111.5	589,781
3442	Metal doors, sash, and trim.....	43.3	334,956	23.3	129,366
3442	Metal doors, sash, and trim.....	...	...	21.0	117,246
2561*	Window and door screens (metal storm doors and sash). See also 2561.....	...	...	2.3	12,120
		MAJOR GROUP 35--MACHINERY (EXCEPT ELECTRICAL)				
3544	Special dies and tools.....	77.4	697,004	(⁵)	(⁵)
3543*	Cutting tools, jigs, fixtures, etc. (special dies and tools). See also 3545.....	...	...	n.a.	n.a.
3545	Metalworking machinery attachments.....	44.9	351,607	(⁵)	(⁵)
3543*	Cutting tools, jigs, fixtures, etc. (excluding special dies and tools). See also 3544.....	...	...	n.a.	n.a.
3559	Special-industry machinery, n.e.c.....	47.0	352,943	58.6	294,236
3559*	Special-industry machinery, n.e.c. (excluding industrial patterns and molds). See also 3594.....	...	...	58.6	294,236
3594	Industrial patterns and molds.....	19.9	152,049	9.7	55,954
3559*	Special-industry machinery, n.e.c. (industrial patterns and molds). See also 3559.....	...	...	9.7	55,954
		MAJOR GROUP 36--ELECTRICAL MACHINERY				
3616	Electrical control apparatus.....	79.3	700,477	67.5	358,431
3616*	Electrical control apparatus (excluding domestic automatic controls). See also 3821.....	...	...	67.5	358,431
3631	Insulated wire and cable.....	14.4	110,317	20.3	99,661
3631*	Insulated wire and cable (excluding appliance cords from purchased insulated wire). See also 3699.....	...	...	20.3	99,661

See footnotes at end of table.

Table B.--DERIVATION OF 1947 CENSUS* OF MANUFACTURES INDUSTRY DATA COMPARABLE WITH DATA FOR 1954 INDUSTRY CLASSIFICATIONS--Con.

Industry code		Industry title	1954		1947	
1954	1947		All employees, number ¹ (1,000)	Value added by manufacture (\$1,000)	All employees, number ¹ (1,000)	Value added by manufacture (\$1,000)
3699	Electrical products, n.e.c.....	8.5	60,472	10.3	54,994
3699	Electrical products, n.e.c.....	...	...	8.7	48,786
3631*	Insulated wire and cable (appliance cords from purchased insulated wire). See also 3631.....	...	...	1.6	6,208
MAJOR GROUP 38--INSTRUMENTS AND RELATED PRODUCTS						
3821	Mechanical measuring instruments.....	69.4	542,602	60.5	281,482
3821	Mechanical measuring instruments.....	...	...	52.4	240,069
3616*	Electrical control apparatus (domestic automatic controls). See also 3616.....	...	...	8.1	41,413
MAJOR GROUP 39--MISCELLANEOUS MANUFACTURES						
3971	Plastics products, n.e.c.....	92.0	589,254	58.4	258,917
3971	Plastics products, n.e.c.....	...	...	57.5	252,069
2295*	Coated fabrics, except rubberized (unsupported film). See also 2295.....	...	...	.9	6,848
3991	Beauty and barber-shop equipment.....	1.7	11,963	3.2	14,386
3991	Beauty and barber-shop equipment.....	...	...	2.8	12,594
2532*	Professional furniture (beauty and barber-shop equipment). See also 2532.....	...	...	.4	1,792
3999	Miscellaneous products, n.e.c.....	20.8	123,805	22.7	102,427
3998	Models and patterns excluding industrial and paper patterns and molds.....	...	...	1.9	8,573
3999	Miscellaneous products, n.e.c.....	...	...	20.8	93,854
ESTABLISHMENTS EXCLUDED FROM SCOPE OF 1954 CENSUS OF MANUFACTURES						
n.m.	Total.....	...	...	9.7	84,568
2211*	Scouring and combing plants (wool scouring converters)....	...	...	.3	17,246
2431*	Millwork plants (retail lumber yards).....	...	...	.7	3,077
2819*	Inorganic chemicals, n.e.c. (mining).....	...	...	.9	11,432
2932*	Byproduct coke ovens (byproduct coke ovens owned by Public Utilities).....	...	...	5.9	41,635
2992*	Lubricants, n.e.c. (lubricant wholesalers).....	...	...	.1	2,211
3231*	Products of purchased glass (glass cutters).....	...	...	.4	3,258
.....	Other nonmanufacturing establishments.....	...	...	1.4	5,709

*Denotes part. n.a. Not available. n.m. Nonmanufacturing. n.e.c. Not elsewhere classified.

¹The number of employees for 1954 for industries other than 2036, 2037, 2099, 2295, and 2889 of this table are based on employment averages for payroll periods ending nearest the 15th of March, May, August, and November. For industries 2036, 2037, 2099, 2295, and 2889 the number of employees are based on the average on the payroll during pay periods ended nearest the 15th of each of the 12 months. For 1947, the employment figure for all industries represents the average on the payroll during pay periods ended nearest the 15th of each of the 12 months.

²Packaged seafood and frozen fruits and vegetables formerly constituted one industry; however, fresh packaged seafood was not included in manufacturing in 1947. 1947 employment and value added for 1954 industries 2036 and 2037 combined (excluding fresh packaged seafood) are 17.4 thousand and \$59,377 thousand, respectively. Total fresh packaged seafood shipped in 1954 amounted to \$53,552 thousand.

³Industry 2090 in 1947 was a Census subindustry of 2099.

⁴Fire stills were excluded from the scope of the 1947 Census. In 1947 fire stills accounted for 15 percent of the total value of products; by 1954 practically all of the production was accounted for by steam (central) stills.

⁵Special dies and tools (industry 3544) and metalworking machinery attachments (industry 3545) constituted industry 3543 in 1947. Comparable 1947 employment and value added for industries 3544 and 3545 combined are 95.9 thousand and \$501,995 thousand, respectively.

Appendix C

CENSUS REPORT FORMS AND PUNCH CARDS

Approximately 200 different report forms ("standard" forms) were used in collecting information in the 1954 Census of Manufactures. Nearly all of these were variations of Form MC-35U shown on pages App. C-2 thru 10 of this appendix. Such forms were sent to larger manufacturing plants (generally those with six or more employees). Items 1 through 16 are the same on nearly all such forms except for item 9, "Number of Employees by Months," which appears on report forms for a few industries characterized by marked seasonal variations in employment. Items 17 and 18, while similar in general purpose, are different for each industry or group of related industries depending upon the materials used or the products manufactured. Items 19 and 20 are similarly adapted to the special characteristics of individual industries.

Five simplified report forms ("short" forms) were used for smaller establishments, i.e., those with less than six employees. The General Manufactures Form MC-D2, shown on pages App. C-16 thru 19, was sent to small establishments in all but four industry areas: (a) Dairy Products, (b) Logs, Lumber and Other Wood Basic Materials, (c) Printing and Publishing, and (d) Concrete Products; for these groups special short forms were prepared. The general inquiries (items 1-10) included for forms used for the smaller establishments are the same and are considerably abridged in comparison with these items included in the stand-

ard forms sent to larger establishments. The product inquiry on Form MC-D2 requested the manufacturer to report value of shipments for classes of products as described in a Product Class Reference List which was enclosed with the form. Plants in the four selected industry areas, however, received forms with a preprinted list of individual products suitable to the industry. The need for such special forms arose after it was determined that product data for these areas were significantly affected by the output of smaller plants. A preprinted list of materials consumed was also included on the forms for certain of these special industries.

Instructions for preparing the 1954 Census report forms are also shown below except for Form MC-D2 and its four variations. Short form respondents were sent the Product Class Reference List described above with the other instructions appearing on the form itself.

Additional forms used to cover separate central administrative offices and auxiliary units, plants under construction but not in operation during 1954, plants using 20 million or more gallons of water during 1954, etc., are described in Section 9 of the introductory text which appears at the beginning of this Volume.

The basic punch cards used in tabulating the 1954 Census data are shown on pages App. C-20 and 21.

U. S. DEPARTMENT OF COMMERCE—BUREAU OF THE CENSUS									
<div style="display: flex; justify-content: space-between;"> <div> FORM MC 35U 1954 CENSUS OF MANUFACTURES MEASURING AND DISPENSING PUMPS FORM MC-35U </div> </div>									
CENSUS USE ONLY									
State	SMA/SEA	County	City	City Size	T. E.	V. A.	Industry	C/O	Plant Spec'l
<div style="display: flex;"> <div style="flex: 1;"> <p>ITEM 1 NAME OF ESTABLISHMENT</p> <p>Factory, plant, or mill covered by this report:</p> </div> <div style="flex: 1;"> <p>ITEM 2 LOCATION OF ESTABLISHMENT</p> <p>Give actual physical location of this establishment (which may differ from business mailing address).</p> <p>a. Street and number _____</p> <p>b. City, town, or village _____</p> <p>c. County _____ d. State _____</p> <p>e. Is this establishment within the actual legal boundaries of any city or town? _____ <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>f. If "Yes," give official name of city or town. (If same as Item 2b, write "same.") _____</p> </div> </div>									
<p>ITEM 3 NATURE OF ACTIVITY</p> <p>If "No," see enclosed instructions for Item 2.</p> <p>Describe briefly the kind of activity of this establishment:</p>									
<p>ITEM 4 FED. SOCIAL SECURITY EMPLOYER IDENTIFICATION NUMBER</p> <p>a. Federal Social Security Employer Identification Number. (Enter number as reported on Form 941, Item 10, on latest employer's quarterly tax return under Federal Insurance Contributions Act) _____</p> <p>b. Number of separate places of business operated under this Employer Identification Number. _____ <input type="checkbox"/> One <input type="checkbox"/> Two or more</p>									
<p>ITEM 5 COMPANY AFFILIATION</p> <p>a. Is this company (identified by the number given in Item 4a) owned or controlled by another company? _____ <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>b. If "Yes," give name and address of owning or controlling company: _____</p> <p>c. Does this company (identified by the number given in Item 4a) own or control another company? _____ <input type="checkbox"/> Yes <input type="checkbox"/> No</p>									
<p>ITEM 6 FORM OF OWNERSHIP</p> <p>Check one:</p> <p>(1) <input type="checkbox"/> Individual proprietor</p> <p>(x) <input type="checkbox"/> Partnership (Specify number of working partners _____)</p> <p>(v) <input type="checkbox"/> Corporation (Do not include any form of cooperative association)</p> <p>(o) <input type="checkbox"/> Cooperative association (corporate or noncorporate producer-cooperatives and cooperative marketing associations)</p> <p>(o) <input type="checkbox"/> Other (Specify) _____</p>									
<p>ITEM 7 CHANGE IN STATUS OR OWNERSHIP OF THIS ESTABLISHMENT SINCE DECEMBER 31, 1953</p> <p>Change in status since December 31, 1953 (Check one):</p> <p>a. <input type="checkbox"/> Owned and operated by you during all of 1954</p> <p>b. <input type="checkbox"/> Purchased by you on _____ (date)</p> <p>c. <input type="checkbox"/> Sold by you on _____ (date)</p> <p>d. <input type="checkbox"/> Did not operate in 1954 (but still owned by you)</p> <p>e. <input type="checkbox"/> Went out of business (no new owner) on _____ (date)</p> <p>Give name and address of former owner (if box "b" is checked) or purchaser (if box "c" is checked): _____</p>									
<p>*Complete report for part of 1954 you operated this plant.</p>									

CONFIDENTIAL—This report should be returned within 30 days of its receipt. This report is required by Act of Congress (13 U. S. C. 131). Your report is confidential and only sworn Census employees will have access to it. It cannot be used for purposes of taxation, investigation or regulation.

(Please correct any errors in name and address)

PLEASE READ ENCLOSED INSTRUCTIONS BEFORE COMPLETING REPORT

ITEM 8 EMPLOYMENT AND PAYROLLS IN 1954	Class of employee	Number of employees in 1954					Sum of Cols. (A) through (D) (E)	Average employment (Divide Col. (E) sums by 4) (F)	Total 1954 payroll (wages, salaries, bonuses, commissions, and other remunerations paid in entire year, before deductions) (omit cents) (G)
		Pay period ended nearest 15th of—							
		March (A)	May (B)	August (C)	November (D)				
a. Production and related workers	Workers (up through the working foreman level) engaged in fabricating, processing, assembling, inspection, receiving, storage, handling, packing, warehousing, shipping (but not delivering), maintenance, repair, janitorial, watchman services, product development, auxiliary production for plant's own use (e. g., power plant), record keeping, and other services closely associated with these production operations. Exclude supervisory employees above working foreman level.						A1, B1	A2	\$
b. Force-account construction workers	Employees on your payroll who are engaged in construction of major additions or alterations to the plant and are utilized as a separate work force. (Workers engaged in regular maintenance and repair operations should be reported in Item 8a, not here)						B2		\$
c. All other employees	Nonproduction personnel of this establishment, including those engaged in the following activities: factory supervision above working foreman level, sales (including driver salesmen), sales delivery (highway truck drivers and their helpers), advertising, credit, collection, installation and servicing of own products, clerical and routine office functions, executive, purchasing, finance, legal, personnel (including cafeteria, medical, etc.), professional, and technical						B3		\$
d. TOTAL FOR THIS ESTABLISHMENT (Sum of a, b, and c)									\$
ITEM 9	(Not applicable to this industry)								
ITEM 10	MAN-HOURS OF PRODUCTION AND RELATED WORKERS, BY QUARTER	1954 Quarterly period—					Man-hours (omit fractions)	Census Use Only	
	Enter the total number of plant man-hours of production and related workers (as defined in Item 8a) for each calendar quarter (or comparable 13 week period) of 1954. Do not include hours paid for vacations, holidays or sick leave.	January through March					A6, C1, G1		
		April through June					A7, G2		
		July through September							
		October through December					A8, G3		A9
		TOTAL, 1954					A5		
ITEM 11	SUMMARY OF MATERIALS, FUELS, AND ELECTRIC ENERGY; CONTRACT WORK; AND COST OF REALES DURING 1954	Item					Cost (omit cents)		
	On lines a and c, report the cost of all items actually consumed or put into production in 1954, whether purchased, withdrawn from inventories, or received from other establishments of this company. If your records do not show actual amounts consumed, this may be computed by adding purchases (or receipts) during the year to opening inventory and subtracting closing inventory. Purchase records instead of consumption records may be used for any major material, if purchases closely approximate consumption, and for all minor materials and supply items.	C2							
	"Cost" refers to amounts actually paid or payable after discounts, and includes freight and other direct charges incurred in acquiring the items. For materials, parts, etc. transferred from other establishments of this company, report the nearest approximation to their commercial cost value.								
	a. Materials, parts, containers, and supplies consumed during 1954. Include consumption of all raw materials, parts and components, containers, and supplies. (Should be the same as total of Item 17.)							\$	
	b. Cost of products bought and resold without further manufacture, processing, or assembly in this establishment during 1954							\$	
	c. Fuels consumed during 1954 (Should be the same as Item 12a, 6)							\$	
	d. Electric energy purchased during 1954 (Should be the same as Item 12b, 1)							\$	
	e. Cost of work done for you by others on your own materials during 1954 (contract work)							\$	
	f. TOTAL (Sum of a, b, c, d, and e)							\$	

ITEM 12	Item (A)	Code	Unit of measure (B)	Quantity (C)	Cost (omit cents) (D)
FUELS AND ELECTRIC ENERGY a. Fuels consumed during 1954	Report quantities in units specified; report total delivered cost, not cost per unit. Check the kinds of fuel used:	D1		D2	D3
	1. Coal: (11) <input type="checkbox"/> Bituminous or lignite (12) <input type="checkbox"/> Pennsylvania anthracite		Short ton		\$
	2. Coke		Short ton		\$
	3. Fuel oil: (31) <input type="checkbox"/> Distillate (light) (32) <input type="checkbox"/> Residual (heavy)	20	Bbl. (42 gals.)		\$
	4. Gas: (41) <input type="checkbox"/> Natural (42) <input type="checkbox"/> Manufactured or mixed		M cu. ft.		\$
	5. Other fuels: <input type="checkbox"/> Gasoline <input type="checkbox"/> Liquefied petroleum gas <input type="checkbox"/> Wood <input type="checkbox"/> Other	50			\$
6. TOTAL (Sum of lines 1 through 5; should be the same as Item 11c)					\$
b. Electric energy during 1954	1. Purchased (Should be the same as Item 11d. - Exclude energy purchased for resale)		kw.-hr.	E1	E2
	2. Generated (gross, less generating-station use)		kw.-hr.	E3	\$
	3. Sold (in "Cost" column, report value of electric energy sold)		kw.-hr.	E4	E5
ITEM 13	G4				
INDUSTRIAL WATER USE DURING 1954	a. Total quantity of water intake in this establishment during entire year 1954 (Check one):	(1) <input type="checkbox"/> 20 million gallons or more per year	(2) <input type="checkbox"/> 10 to 20 million gallons per year	(3) <input type="checkbox"/> 1 to 10 million gallons per year	(4) <input type="checkbox"/> Less than 1 million gallons per year
	b. Kind of water used (Check one):	(1) <input type="checkbox"/> Fresh water	(2) <input type="checkbox"/> Brackish (salt) water from the ocean, ponds, or wells	(3) <input type="checkbox"/> Both	
ITEM 14 HORSEPOWER RATING OF POWER EQUIPMENT, AT END OF 1954	c. Check principal source (1) <input type="checkbox"/> Public water systems (municipally or privately owned)	(2) <input type="checkbox"/> Company surface water systems, such as streams or lakes	(3) <input type="checkbox"/> Company ground water systems, such as wells or deep springs		
	The figures should represent total horsepower rating of equipment in use or available for use at end of 1954. Report the horsepower rating indicated on name plates.				
	Kind of power equipment	Total horsepower rating (At end of year)			
	a. Internal combustion engines, steam engines and turbines, and other prime movers, except for highway-type equipment:	1. Driving generators	E6	hp.	
	2. Not driving generators	E7	hp.		
	b. Electric motors (one horsepower and over)	E8	hp.		
ITEM 16 CAPITAL EXPENDITURES FOR THIS ESTABLISHMENT DURING 1954 (Exclude expenditures for land)	Expenditures refer to all costs actually incurred during 1954 which are chargeable to the fixed assets accounts of this establishment and which are of the type for which depreciation accounts are ordinarily maintained. Do not include cost of maintenance and repairs charged as current operating expense.				
	During 1954, did you make any expenditures for this establishment of the kind described above? (Check one) <input type="checkbox"/> Yes <input type="checkbox"/> No If "Yes," supply figures:				
	Type of capital expenditures (excluding land)	Expenditures (omit cents)	Census Use Only		
	a. New structures and additions to plant (including major alterations, capitalized repairs and improvements)	G5	\$		
b. New machinery and new equipment (including capitalized repairs and improvements)		\$			
c. Expenditures for used plant and used equipment acquired from others		\$			
d. TOTAL CAPITAL EXPENDITURES (Sum of a, b, and c)		\$			

ITEM 17 SELECTED MATERIALS CONSUMED DURING 1954		<p>General.—This inquiry calls for a breakdown of the cost of all materials and components, parts, containers, and supplies consumed during 1954, as reported in Item 11a on reverse. Separate figures are required for each material listed below if your consumption of the material during 1954 amounted to \$5,000 or more. The cost of materials, supplies, etc., which are not listed or, if listed, are not reported separately because their value is estimated at less than \$5,000, should be reported on the line for "All other materials and components, parts, containers, and supplies consumed." The total cost in Item 17 should, therefore, agree with Item 11a.</p> <p>Consumption of Materials Received From Other Establishments (Col. (D) and Col. (E)).—Report in these columns the quantities and delivered cost of each of the listed materials actually consumed or put into production during the year, whether purchased, withdrawn from inventories, or received from other establishments of this company.</p> <p>Quantity (Col. (D)).—Report the quantities actually consumed in the unit of measure specified. If you do not maintain actual consumption records, but if purchases closely approximate consumption, your purchase figures may be used in completing the item. However, if for one of the items specifically listed, consumption differs significantly from purchases, please derive consumption figures by adding beginning inventory to</p> <p>purchases during the year and then subtracting closing inventory. Purchase data may be reported for minor materials and supply items.</p> <p>Delivered Cost (Col. (E)).—Report amounts actually paid or payable after discounts, and include freight and direct charges incurred in acquiring the quantities of the listed materials consumed during 1954. For materials transferred from other establishments of this company, report the nearest approximation to the commercial value of the material.</p> <p>Consumption of Materials Produced in This Establishment (Quantity) (Col. (F)).—Report the quantities of each listed material which were made and consumed in further fabrication or assembly within the same establishment.</p> <p>Derived Unit Cost (Col. (E) Divided by Col. (D)).—This computation is included as an aid to you and the Census Bureau in assuring that this part of your report has been filled out correctly. Please examine the derived unit costs to make sure that the correct unit of measure (Column (C)) has been used and that the quantities and costs entered are consistent.</p> <p>All Other Materials and Components, Etc. (Line 10).—This figure may be derived by subtracting the sum of the material costs on lines 1-9 from the total cost of all materials, parts, containers, and supplies consumed during 1954, as reported in Item 11a.</p>										
Material (A)	H Line No. (B)	Census material code (C)	Unit of measure (D)	Consumption of materials received from other establishments		Consumption of materials produced in this estab- lishment (quantity) (F)	Derived unit cost (Col. (E) divided by Col. (D))					
				Quantity (D)	Delivered cost (omit cents) (E)							
Mill Shapes and Forms (except castings)	Copper and copper-base alloy											
	Bare wire.....	1	335111	Thousand pounds		\$	\$					
	Insulated wire and cable (report copper content in quantity column).....	2	363111	Thousand pounds		\$	\$					
	All other copper and copper-base alloy mill shapes and forms.....	3	335119	Thousand pounds		\$	\$					
Castings (rough and semifinished, received from foundry)	Aluminum and aluminum-base alloy mill shapes and forms (rolled, drawn, and ex- truded).....	4	335211	Thousand pounds		\$	\$					
	Iron (gray and malleable).....	5	332011	Short ton		\$	\$					
	Copper and copper-base alloy.....	6	336121	Thousand pounds		\$	\$					
	Aluminum and aluminum-base alloy.....	7	336111	Thousand pounds		\$	\$					
Fractional Horsepower Electric Motors.....	8	361411	Number		\$	\$	\$					
Integral Horsepower Electric Motors and Generators.....	9	361431	Number		\$	\$	\$					
All Other Materials and Components, Parts, Containers, and Supplies Consumed.....	10	970000			\$	\$	\$					
Total (Sum of lines 1-10; should be the same as Item 11a).....	11				\$	\$	\$					

ITEM 18 PRODUCTS AND SERVICES OF THIS ESTABLISH- MENT DURING 1954	<i>Report separately each product listed; do not combine product lines.</i> Production for All Purposes (Col. (C)). —Report in this column the total amount of each specified product made in this establishment during 1954, whether sold, transferred, added to inventory, or used in further processing. Total Shipments and Interplant Transfers (Col. (D) and Col. (E)). —Report in these columns the quantity and selling value f. o. b. plant of all products made in this establishment which were physically shipped from this establishment during 1954. Include products shipped on consignment, whether or not sold at the end of the year. Deduct returned goods. For value of shipments, report the net selling value f. o. b. plant of your total shipments of each product listed. The reported figures should represent values f. o. b. plant after discounts and allowances and should not include freight charges or excise taxes.	K	Product (A)	Line No. (B)	Unit of measure (C)	Production for all purposes (quantity) (D)	Total shipments and interplant transfers		Census product code (J)	Derived unit value (Col. (E) divided by Col. (D))
		Quantity (D)					Value f. o. b. plant (omit cents) (E)			
a. Products Made in this Establishment	Gasoline dispensing pumps Filling station type (in columns (C) and (D)), report twin pumps as two units Computing..... Noncomputing.....	1	Number of units				35860 11	\$		
		2	Number of units				35860 13	\$		
	Airport fueling units (Report number of meters in columns (C) and (D)).....	3	Number of units				35860 15	\$		
		4	Number of units				35860 21	\$		
	Lubricating-oil outfits (Includes pump and tank).....	5	Number of units				35860 31	\$		
		6	Number of units				35860 41	\$		
	Grease pumps.....	7	Number of units				35860 51	\$		
		8	Number of units				35860 98	\$		
	Other measuring and dispensing pumps (Specify kind).....	9	Number of units				35860 98	\$		
		10	Number of units				35613 11	\$		
Air compressors, stationary, 7½ hp. and under (Include automotive type).....										

	All Other Products (Specify kind and unit of measure)	11				\$	\$	\$
		12				\$		\$
		13				\$		\$
		14				\$		\$
		15				\$		\$
b. Contract Work	Receipts for work done for others on their own materials (Describe products worked on and kind of work)	16				\$	J7	93000 00
c. Miscellaneous Receipts	Sales of scrap and refuse.....	17				\$	J1	
	Receipts for repair work.....	18				\$	J2	
	Receipts for installation (or construction) of products of this establishment.....	19				\$	J3	
	Receipts for research and developmental work.....	20				\$	J4	
d. Resales	Sales of products bought and resold without further manu- facture, processing, or assembly in this establishment.....	21				\$	J5	
e. TOTAL (Sum of lines 1-21)		22				\$	J6	J7 For Census Use Only

Form MC-35U		FOR CENSUS USE ONLY										
1954 CENSUS OF MANUFACTURES MEASURING AND DISPENSING PUMPS—Continued		Establishment Identification No.										
Name of establishment (Same as Item 1)		State	SMA SEA	County	City	City size	T. E. V. A.	Industry	C/o	Plant spec'l		
ITEM 19	Not applicable to this industry											
ITEM 20 METALWORKING OPERATIONS PERFORMED IN THIS ESTABLISH- MENT DURING 1954	<p>Indicate in column (B) by checking appropriate boxes, whether or not the specified operations were performed in this establishment during 1954. A check should be entered in either the "Yes" box or "No" box for each operation. Where the "Yes" box is checked, show in column (C), (D), or (E) the number of production workers on all shifts usually engaged in the specified operation. If the usual number is less than 20, indicate this by checking either column (C) or (D). If it is 20 or more, enter in column (E) an estimate of the number of production workers usually engaged.</p>											
M		Was this operation performed in this establishment during 1954?		Number of production workers (on all shifts) usually employed when operated								
		(B)		Less than 5			5 to 19			20 and over (Report approximate number)		
		Yes		No		(C)			(D)			
		(A)										
(1) Foundry (exclude die casting).....		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>			<input type="checkbox"/>			
(Check one) <input type="checkbox"/> Ferrous <input type="checkbox"/> Nonferrous												
<input type="checkbox"/> Both ferrous and nonferrous												
(2) Die casting (nonferrous metal only).....		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>			<input type="checkbox"/>			
(3) Forging—presses, hammers, or upsetters (exclude manufacture of nuts, bolts, etc.).....		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>			<input type="checkbox"/>			
(4) Electroplating.....		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>			<input type="checkbox"/>			
(5) Galvanizing and other hot dip coating.....		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>			<input type="checkbox"/>			
(6) Heat treating or annealing of metals for production purposes.....		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>			<input type="checkbox"/>			
(7) Automatic screw machine department.....		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>			<input type="checkbox"/>			

<p>(8) Machine shop.....</p> <p>(9) Tool and die shop (if separate from machine shop) for making jigs, fixtures, dies, and other special tooling.....</p> <p>(10) Pattern shop (foundry patterns only—metal, wood, etc.).....</p> <p>(11) Plate or structural fabrication.....</p> <p>(12) Stamping, blanking, forming, or drawing.....</p>	<p><input type="checkbox"/></p> <p><input type="checkbox"/></p> <p><input type="checkbox"/></p> <p><input type="checkbox"/></p> <p><input type="checkbox"/></p>	<p><input type="checkbox"/></p> <p><input type="checkbox"/></p> <p><input type="checkbox"/></p> <p><input type="checkbox"/></p> <p><input type="checkbox"/></p>	<p><input type="checkbox"/></p> <p><input type="checkbox"/></p> <p><input type="checkbox"/></p> <p><input type="checkbox"/></p> <p><input type="checkbox"/></p>	<p><input type="checkbox"/></p>
<p>ITEM 21</p> <p>CHECKS TO</p> <p>ASSURE A</p> <p>COMPLETE</p> <p>AND</p> <p>ACCURATE</p> <p>REPORT</p>	<p>The Census Bureau reviews your report for omissions, inconsistencies, and unusual ratios. To save you future correspondence about these problems, please make the following checks before returning your report:</p> <p>(1) Review the report carefully to see that no items are omitted.</p> <p>(2) Copy the figures requested in Columns I and II below; analyze your results in Column III below.</p> <p>(3) Correct your report for any errors you find; explain unusual figures in "Remarks" section.</p>			
<p>Copy in Column I the figures reported in—</p> <p>Item 8a, Col. (G) (Production worker wages)..... \$</p> <p>Item 10, Total (Total man-hours).....</p> <p>Item 8d, Col. (G) (Total salaries and wages)..... \$</p> <p>Item 8d, Col. (G) (Total salaries and wages)..... \$</p> <p>Item 11f (Total cost of materials, etc.)..... \$</p>	<p>Copy in Column II the figures reported in—</p> <p>Item 10, Total (Total man-hours).....</p> <p>Item 8a, Col. (F) (Average production workers).....</p> <p>Item 8d, Col. (F) (Average total employment).....</p> <p>Item 18, Total, Col. (E) (Value of shipments)..... \$</p> <p>Item 18, Total, Col. (E) (Value of shipments)..... \$</p>	<p>Column II</p>	<p>Divide Column I by Column II; show result in Column III</p> <p>Average hourly wages per worker..... \$</p> <p>Hours worked per year per worker.....</p> <p>Average annual earnings per employee..... \$</p> <p>Salaries and wages per dollar of shipments..... \$</p> <p>Materials cost per dollar of shipments..... \$</p>	<p>Column III</p>
<p>Remarks</p>				

	ITEM 22	Name and address of person who should be contacted if questions arise regarding this report	Telephone No.
	ITEM 23 CERTIFICATION	This report is substantially accurate and covers the period from to Date Title Signature of authorized person	

DEPARTMENT OF COMMERCE

BUREAU OF THE CENSUS

1954 CENSUS OF MANUFACTURES

GENERAL INSTRUCTIONS TO MANUFACTURERS
FOR PREPARING REPORTS

INTRODUCTION

A. WHO SHOULD REPORT?

Every concern which receives a form is required to submit a separate census report for each of its manufacturing establishments in the Continental United States, Alaska, and Hawaii. Concerns with more than one

establishment must submit a separate report for each establishment operated during 1954. Your report should be returned to the Census Office shown on the enclosed envelope *within 30 days of its receipt*.

B. WHAT IS A MANUFACTURING ESTABLISHMENT?

A manufacturing establishment is generally defined as a single physical location where industrial operations are performed; for example, a factory, mill, or plant. Where a single physical location comprises two or more units which are engaged in distinct or separate manufacturing activities, and for which separate records are available or for which substantially accurate reports can be prepared, each such unit shall be treated as a separate establishment. In the preparation of such reports a limited amount of prorating or estimating may be necessary. An establishment is not necessarily identical with the business concern or firm which may consist of one or more establishments. It is also to be distinguished from organizational subunits, departments or divisions within an establishment. Units at different physical locations, even though engaged in the same line of manufacturing,

processing, and assembly, should be reported as separate establishments.

Where agreements were reached by your company with the Bureau of the Census concerning the definition of your manufacturing plants for reporting in the 1947 Census of Manufactures or subsequent Annual Surveys of Manufactures, the same definitions should be used in this Census. (However, it is necessary to prepare a separate report for *each* enclosed manufactures form imprinted with a specific plant name and address.)

If additional report forms are required, please write the Bureau of the Census, indicating the type of activity which is not covered by the form(s) sent you. (NOTE.—If you received a copy of Form NC-X2, use it to request such additional forms.)

C. WHAT KIND OF ACTIVITIES SHOULD THE ESTABLISHMENT REPORTS COVER?

Each report should cover all the production activities (manufacturing, fabricating, processing, and assembling) *conducted within the establishment*. It should also include activities such as the generation of power for the plant, maintenance of plant and equipment, receiving, shipping, warehousing, storage, research, record keeping, health, safety, cafeteria, and other services, *when carried on at the same physical location by the manufacturing*

establishment. Your report should *exclude* sales branches, sales offices, power plants, research laboratories, retail stores, and general administrative offices, *if they are operated as separate establishments*. Separate Census reports should be submitted for each of these establishments. Business concerns operating more than one establishment should refer to the instructions defining an establishment on the company summary form NC-X7.

D. WHAT PERIOD SHOULD EACH REPORT COVER?

Each report should cover the calendar year 1954. If your book records are not on a calendar year basis, carefully prepared estimates for this period will be accepted. If, however, this procedure will involve you in considerable additional costs, and agreements were reached by your company with the Census Bureau in regard to reporting on a fiscal year basis in the 1947 Census or subsequent Annual Surveys of Manufactures, you may report on a fiscal basis. As in the 1947 Census and in the Annual Surveys of Manufactures, however, all employment,

payroll, and man-hour figures should relate to the *calendar* year rather than the fiscal year.

The dates given in the certification should show the exact period for which this report is made. Thus, if an establishment began to operate or ceased to operate within the year, the dates given will show that only part of a year is covered by the report. Where an establishment was operated during the early part of the year under other management, complete the report only for that part of the year 1954 in which you operated.

E. HOW SHOULD MULTIPLE ESTABLISHMENT COMPANIES DETERMINE TRANSFER VALUES FOR INDIVIDUAL PRODUCTS AND MATERIALS?

In order to provide accurate information for individual industries, States, and local areas, it is necessary for each establishment of a multiple plant organization to report as though it were operated as an independent manufacturing establishment. For example, where a single company operates a textile mill and also manufactures apparel, the transfer of fabrics from one establishment to the other should be reported at *approximately commercial value* and *not* at the cost of production. This requires that a company operating two or more plants assign to each plant and to the individual products a reasonable proportion of the profits and the overhead costs. The method found by each company to be most convenient will ordinarily be acceptable to the Census Bureau. It is recognized that estimates will often be involved.

If the product section of the form (item 18) calls for "interplant transfers" separately, it means transfers between *manufacturing* plants of your company. Interplant transfers should *not* include transfers to separate selling departments, sales branches, retail stores, export subsidiaries or other distribution channels owned by your company. The products reported at "transfer values" by the shipping plant should be reported by the receiving plant as materials consumed (or inventories of materials, etc.) at the same values, except for the addition of freight and other direct handling charges.

These instructions apply to all establishments for which separate reports are being submitted, including those at the same location as well as those at different locations.

ITEMS ON THE REPORT FORM

(NOTE.—An entry is required in each item on the form. If the answer is none, enter "none" or "0." If a particular question does not apply to your business, enter "not applicable" or explain briefly in the "Remarks" space.)

Item 1. Name of Establishment (Factory, Plant, or Mill).—Enter the name under which the establishment covered by this report does business. If it is one of several establishments doing business under the same name, also give the name or number by which it is distinguished from the other establishments of the same company. For example: "Atlas Steel Co., Centerville Plant." If it is one of several establishments at the same address, it is important that you indicate type of activity; for example, "Acme Textile Co., Third Street Mill Finishing Department."

Item 2. Location of Establishment.—Enter the *actual physical location* of your factory, plant, or mill (which may differ from the business address at which mail is received) in Items 2a through 2d. If the establishment is located *within the actual legal boundaries* of any city or town, check "YES" in item 2e and give the *official* name of the city or town in item 2f. (This name is *not necessarily* the same as the post office station name used for the mailing address of the establishment.)

If the establishment is *not* located within the *actual legal boundaries* of any city or town, check "NO" in item 2e and enter in item 2f the name of the township, borough, or similar civil subdivision of the county in which located. If the latter is not known, however, enter in item 2f the rural route or highway upon which the establishment is located and its distance and direction from the nearest city or town (for example, "State Highway No. 26, 10 miles northeast of York"). In the case of mobile operations such as logging or pulpwood operations, give the county in which the *major* activity was carried on.

Item 3. (See instructions on Form.)

Item 4. (See instructions on Form.)

Item 5. (See instructions on Form.)

Item 6. (See instructions on Form.)

Item 7. Change in Status or Ownership of This Establishment Since December 31, 1953.—If box "d" or box "e" is checked, the following additional information should be supplied in the "Remarks" section. If plant did not operate at any time in 1954 (box "d" has been checked), advise date operation is expected to resume. If "out of business" (box "e" has been checked), state the disposition of the plant, i. e., unoccupied, demolished, dismantled, etc.

Item 8. Employment and Pay Rolls in 1954. Number of Employees in 1954.

Columns (A) through (D).—Report employees at this establishment who worked or received pay for any part of the pay period (preferably 1 week) ended nearest the 15th of the months specified on the report form. *Include* all persons on paid sick leave, paid holidays, and paid vacation during these pay periods; *exclude* members of armed forces and pensioners carried on your active rolls. *Include* officers, if a corporation; *exclude* proprietor or partners, if an unincorporated concern. (You may follow the definition of employees specified by your State Employment Security Agency.) If employment in any one of these pay periods was abnormally low because of a strike or for some other reason, state the reason therefor and report employment for the nearest normal pay period in the "Remarks" section of the form.

Columns (E) and (F).—Add the four employment figures on each line and enter total in column (E); divide this total by FOUR and enter result in column (F), "Average Employment."

Classes of employees on lines 8a, 8b, and 8c are defined as follows:

a. Production and related workers.—Workers (up through the working foreman level) engaged in fabricating, processing, assembling, inspection, receiving, storage, handling, packing, warehousing, shipping (but not delivering), maintenance, repair, janitorial, watchman services, product development, auxiliary production for plant's own use (e. g., power plant), record keeping, and other services closely associated with these production opera-

tions. *Exclude* supervisory employees above working foreman level.

b. Force-account construction workers.—Employees on your payroll who are engaged in construction of major additions or alterations to the plant and are utilized as a separate work force. (Workers engaged in regular maintenance and repair operations should be reported in item 8a, not here.)

c. All other employees.—Nonproduction personnel of this establishment, including those engaged in the following activities: factory supervision above working foreman level, sales (including driver salesmen), sales delivery (highway truck drivers and their helpers), advertising, credit, collection, installation and servicing of own products, clerical and routine office functions, executive, purchasing, finance, legal, personnel (including cafeteria, medical, etc.), professional, and technical.

Column (G)—Total 1954 Payrolls—(Total Wages, Salaries, Bonuses, Commissions, and Other Remuneration Paid in Entire Year 1954, Before Deductions.)—Report the gross earnings paid in the calendar year 1954 to employees on the payroll of this establishment during 1954, including commissions, dismissal pay, all bonuses, vacation and sick leave pay, and compensation in kind, and prior to such deductions as employees' Social Security contributions, withholding taxes, group insurance, union dues, and savings bonds. *Include* salaries of officers at this establishment, if a corporation; *exclude* payments to proprietor or partners, if an unincorporated concern. *Exclude* payments to members of armed forces and pensioners carried on your active payroll. (You may fol-

low the definition of salaries and wages that is used for calculating the withholding tax.)

Item 9. Total Number of Employees, by Month.—*This inquiry will appear on the report forms only for selected industries* where there is a significant seasonal pattern, or where an accurate annual employment average cannot be obtained from figures for four specified pay periods (i. e., where a significant difference exists between an employment average based on 4 monthly figures and an average based on 12 monthly figures).

Item 10. Man-Hours of Production and Related Workers, by Quarter.—“Plant man-hours” of production and related workers (as defined in Item 8a) is designed to measure the over-all activity of the plant during each quarter. The requested figures consist of all man-hours worked or paid for, except hours paid for vacations, holidays or sick leave, when the employee was *not* at the plant. *Include* actual overtime hours, not straight-time equivalent hours. If employee elects to work during the vacation period, report only actual hours worked by such employee.

Each quarterly man-hours figure should be a total for the entire quarterly period (either calendar quarter or 13-week period). The “Total 1954” figure should account for *all* man-hours at the plant of production and related workers only for the entire year. Do *not* include man-hours for “force-account construction workers” or for “all other employees.” If a payroll period runs from one quarter into the next, distribute the man-hours between the two quarters.

SPECIAL INSTRUCTIONS FOR ITEMS 11, 12, AND 17

What To Include in These Items.—Report total amounts of materials, supplies, semi-finished goods, fuels, etc., actually consumed or put into production during 1954 by your establishment. *This should include only physical goods and not services used or overhead.* Therefore, *exclude* such services as advertising, telephone, telegram and cable, insurance, developmental and research services provided by other establishments, services of engineering, management, marketing and other professional consultants, etc. *Exclude*, in addition, such overhead items as depreciation charges against plant and equipment, rent and rental allowances, interest payments, and royalties and use of patents fees.

In addition to items purchased from other companies, you should be sure to include materials, supplies, fuels, etc., received from other establishments of your company. The figures reported in Items 11a, 11c, 11d, 12, and 17 should cover materials, fuels, etc., which were: (1) put into production, (2) used as operating supplies, (3) used in repair and maintenance, and (4) owned by you but consumed by other companies to make products for your establishment. Products purchased and resold without further manufacture or processing should be included in Item 11b *only*. *Exclude* materials, supplies, machinery, and equipment which were used in the construction of new structures or additions to your plant or new machinery

and equipment, and which are chargeable to fixed assets accounts.

Definition of Consumption.—Include items received prior to 1954 if they were consumed during the year, but do not include items received in 1954 if they were not consumed. If your records do not show actual amounts consumed or put into production during the year, but purchases closely approximate consumption, purchase figures may be used in completing Items 11, 12, and 17. This applies especially to minor materials and supply items. If for any major item, however, consumption differs significantly from purchases, consumption should be computed from your records of purchases (receipts) and inventories of materials as follows: Add amounts received during the year to amounts on hand at the beginning of the year and from this total subtract amounts on hand at the end of the year. The resulting figure represents consumption during the year.

Definition of Cost.—“Cost” refers to direct charges actually paid or payable for items consumed or put into production during the year. For this reason, it should represent the cost after discounts, and should include freight charges and other direct charges incurred by the establishment in acquiring these materials.

The cost reported for materials, etc., received from other plants of your company or from a central materials

depot (whether at the same or different physical locations) should approximate the commercial values of these materials plus freight and other direct handling charges. Wherever possible, these figures should be checked with the values reported by the plant producing and transferring the goods and should exceed the shipment values reported for the producing plant only by the addition of freight or other direct handling charges involved.

Item 11a. Materials, Parts, Containers, and Supplies Consumed During 1954.—Report the total delivered cost of all raw materials, semi-finished goods, parts, components, containers, scrap, and supplies consumed or put into production during 1954 by this establishment. For semi-finished goods, parts, or components produced and later incorporated into finished products at the same plant, include the cost of raw materials used in their manufacture rather than the value of the intermediate products made.

Be sure to include the cost of all materials listed in Item 17 (if applicable) or listed as examples in Item 11a. In addition, include the cost of all parts, containers, and supplies shown in the list of examples below. Be sure to include the cost of any such listed items and *all other materials, parts, etc.*, actually consumed or put into production at this establishment in 1954. This list is shown only as an example rather than as a complete list of types of items which should be included.

Parts

Pumps.	Engines.
Wheels.	Gears.
Bearings.	Hardware.

Supplies

Bolts, screws, and nuts.
Drills, tools, dies, jigs, and fixtures which are charged to current expense accounts.
Welding rods, electrodes, and acetylene.
Lubricating oils.
Paint and varnish.
Findings.
Soap and cleaning supplies.
Stationery, stamps, and office supplies.
First aid and safety supplies.
Dunnage.
Purchased water or steam.

Containers

Pails.	Boxes and bags.
Drums and barrels.	Crates.
Tubes.	

Item 11b. Cost of Products Bought and Resold Without Further Manufacture, Processing or Assembly in This Establishment During 1954.—Give the cost of all products bought and resold in the *same* condition as when purchased and not made part of another product manufactured by this establishment. (Total invoice sales value of all products thus resold is to be reported in Item 18 on the line for "Resales.")

Item 11c. Fuels Consumed During 1954.—Report the total amount actually paid or payable during 1954 for all fuels consumed for heat, power, or the generation of electricity. Include anthracite and bituminous coal, coke, natural and manufactured gas, fuel oil, liquefied petroleum gas, purchased steam, and all other fuels.

Item 11d. Electric Energy Purchased During 1954.—Report the total amount actually paid or payable for electric energy purchased during 1954.

Item 11e. Cost of Work Done for You by Others on Your Own Materials During 1954. (Contract Work.)—If any work was done by others on materials furnished by your establishment, report the total 1954 payments made for such work, including freight out and in. *Exclude* the cost of materials worked on, which should be included in Item 11a (and in Item 17 if the latter appears on the report form).

Item 12a. Fuels Consumed During 1954.—(*This item is omitted from the report forms for establishments in selected Apparel and Printing and Publishing industries.*) Do not include fuels that were produced and used at this establishment for power or heat, for example, coke at coke ovens or fuel oil at petroleum refineries. Include in Item 17, fuel used as raw materials, for example, crude petroleum, coal used in making coke, and gas used in making carbon black.

Item 12a, 3. Fuel Oil.—Under "Distillate (light)" fuel oil include Grade Nos. 1 through 4 and P. S. 100 and 200. Under "Residual (heavy)" fuel oil include Grade Nos. 5 and 6 and P. S. 300 and 400. If nearly all of the fuel oil used was of one type, check only the principal type.

Item 12b. Electric Energy During 1954.—*Establishments in selected Apparel and Printing and Publishing industries will be required to report in this item only the number of kilowatt hours of electric energy purchased, (the cost of this energy being reported in Item 11d.)*

SPECIAL INSTRUCTIONS FOR CENTRAL POWERPLANTS SERVING TWO OR MORE ESTABLISHMENTS

If a central power plant is identified as a separate establishment for Census reporting purposes, it should be reported on the "Administrative Office and Auxiliary Establishments" Form NC-X6 and the supplemental power plant form, MC-D10. If such a separate report is made for the power plant, the reports for the manufacturing establishments should show all electric energy used under "Purchased" (including electric energy furnished by the central power plant).

If the central power plant is not reported as a separate

unit, all electric energy generated by this power plant should be shown on the report for the establishment to which the power plant is attached, or to which it furnishes the greater quantity of electric energy. All electric energy generated but not used at this manufacturing establishment (including transfers to other establishments of the same company) should be reported as electric energy sold. Such electric energy used by other establishments of your company should be shown in their reports as purchased electric energy.

Item 13. Industrial Water Use During 1954.—(See instructions on form.) *A selected group of establishments, consisting mainly of those consuming large quantities of water, will be required to supply the following additional detail on water consumed during 1954: total intake during the year distributed by type of use; quantity discharged; quantity recirculated; and quantity treated.*

Item 14. Horsepower Rating of Power Equipment at End of 1954.—Include all engines and turbines, such as internal combustion engines (Diesel, gas, gasoline, etc.), steam engines and turbines, hydroturbines, water wheels, and other prime movers. Include both owned and rented equipment for use at this establishment.

Report internal combustion engines and electric motors (1 hp. and over) in use, or available for use, at the plant, including those driving machinery, such as machine tools, compressors, presses, bottling machines, saws, hoists, etc. Include emergency or standby equipment and equipment temporarily idle because in need of repairs; exclude only junk. Both stationary and mobile equipment, except highway-type vehicles, should be included.

In reporting prime movers for electric generators, if the equipment is rated only on the generator, compute the horsepower rating (hp.) of the prime mover by multiplying the kilowatt rating (kw.) by 1.34. If more than one rating is shown on the name plate for an internal combustion engine, report the brake horsepower if available.

Item 15. Inventories of This Establishment.—(*This item is omitted from the report forms for the Printing and Publishing industries.*)

Where a company operates more than one establishment (i. e., plant, sales branch, retail stores, etc.) the inventories held by each establishment should be included in the establishment's Census report. The balance of the inventories owned by the company but not included in any of the establishment reports (for example, inventories in transit, in separate company or public warehouses, etc.) should be included in the "Administrative Office and Auxiliary Establishments" Form NC-X6. *Inventories should be reported at approximate current costs, if feasible; otherwise at book values.*

Item 16. Capital Expenditures for This Establishment During 1954 (Exclude expenditures for land).—Capital

expenditures cover: New structures and additions (including major alterations, capitalized repairs and improvements) to your plant (whether on contract or by your own forces); new machinery and new equipment; capitalized repairs and improvements to your existing machinery and equipment; and "used" plant and equipment acquired from others. Such expenditures during 1954 may be determined by the following computation: Additions completed during the year, *plus* construction-in-progress at the end of the year, *minus* construction-in-progress at the beginning of the year.

Item 16a. New Structures and Additions to Plant.—Report total expenditures during 1954 for new construction, major alterations, capitalized repairs, and improvements of buildings (including all new elevators, cranes, heating and ventilating equipment, essentially a part of the buildings), other fixed structures (such as blast furnaces, brick kilns, fractionating towers, shipways, and similar types of structures), and site improvements (such as roads, docks, tracks, parking lots, fences, utilities, etc.).

Item 16b. New Machinery and New Equipment.—Report total expenditures at this establishment for new production machinery and equipment and other new machinery and equipment. Include new machinery and equipment purchased for replacement purposes, as well as for additions to capacity. Include the value of improvements and capitalized repairs to machinery and equipment. Include all new motors, lathes, punch presses and similar machinery and equipment for use in production, as well as all new office machines and fixtures, furniture, cafeteria and dressing room furnishings, automobiles and trucks and other similar equipment.

Item 16c. Expenditures for Used Plant and Used Equipment Acquired From Others.—Report total expenditures at this establishment for old or existing plant and for second-hand equipment acquired from others (including the U. S. Government).

Items 17, 18, 19, and 20.—(See instructions on form. For Item 17, also see "Special Instructions for Items 11, 12, and 17" above.)

U. S. DEPARTMENT OF COMMERCE—BUREAU OF THE CENSUS									
1954 CENSUS OF MANUFACTURES									
GENERAL MANUFACTURES FORM									
FORM MC-D2									
FOR CENSUS USE ONLY									
State	SMA SEA	County	City size	T. E. V. A.	Industry	C/O	Plant Spec'l		
ITEM 1 NAME OF ESTABLISH- MENT		Factory, plant, or mill covered by this report :							
ITEM 2 LOCATION OF ESTABLISH- MENT		Give actual physical location of this establishment (which may differ from business mailing address).							
		a. Street and Number _____ b. City, town, or village _____ c. County _____ d. State _____ e. Is this establishment within the actual legal boundaries of any city or town? <input type="checkbox"/> Yes <input type="checkbox"/> No f. If "Yes," give official name of city or town (If same as Item 2-b, write "same"). _____							
		If "No," enter in Item 2f the name of township, borough, or similar civil subdivision of county in which located. If latter is not known, enter rural route or highway upon which located; give distance and direction from nearest city or town.							
ITEM 3 FED. SOCIAL SECURITY EMPLOYER IDENTIFICA- TION NUM- BER		a. Federal Social Security Employer Identification Number. (Enter number as reported on Form 941, Item 10, on latest employer's quarterly tax return under Federal Insurance Contributions Act)..... b. Number of separate places of business operated under this Employer Identification Number..... <input type="checkbox"/> One <input type="checkbox"/> Two or more.							

CONFIDENTIAL—This report should be returned within 30 days of its receipt. This report is required by Act of Congress (13 U. S. C. 131). Your report is confidential and only sworn Census employees will have access to it. It cannot be used for purposes of taxation, investigation or regulation.

(Please correct any errors in name and address)

ITEM 4 COMPANY AFFILIATION	a. Is this company (identified by the number given in Item 3-a) owned or controlled by another company? <input type="checkbox"/> Yes <input type="checkbox"/> No b. If "Yes," give name and address of owning or controlling company: c. Does this company (identified by the number given in Item 3-a) own or control another company? <input type="checkbox"/> Yes <input type="checkbox"/> No	ITEM 5 FORM OF OWNERSHIP	Check one: <input type="checkbox"/> Individual proprietor <input type="checkbox"/> Partnership (Specify number of working partners ____) <input type="checkbox"/> Corporation (Do not include any form of cooperative association) <input type="checkbox"/> Cooperative association (corporate or noncorporate producer-cooperatives and cooperative marketing associations) <input type="checkbox"/> Other (Specify) _____
ITEM 6 NUMBER OF EMPLOYEES	AX3 BXXX4	March	May August November
ITEM 7 TOTAL 1954 PAYROLLS	Total number of employees during the pay period ended nearest the 15th of the following months in 1954. (Exclude proprietor or partners, if an unincorporated concern. You may follow the definition of employees specified by your State Employment Security Agency.)	B5	B6 B7 B8
ITEM 8 COST OF MATERIALS, FUELS, ELECTRICITY, ETC.	Total 1954 payrolls: wages, salaries, bonuses, commissions and other remunerations paid in entire year 1954, before deductions. (Exclude payments to proprietor or partners, if an unincorporated firm. You may follow the definition of salaries and wages that is used for calculating the withholding tax.) a. Cost of materials, parts, components, supplies, containers, fuel and electric energy consumed during 1954 b. Cost of products bought and resold without further manufacture, processing, or assembly in this establishment during 1954 c. Cost of work done for you by others on your own materials (contract work) during 1954	S1	Amount (Omit cents) Cost (Omit cents) Value (Omit cents)
ITEM 9 INVENTORIES OF THIS ESTABLISHMENT	(Report value of all inventories of this establishment, including finished products, work-in-process, materials, supplies, fuel, etc. Do not include goods held by you, but owned by others.) a. Beginning of 1954 inventories b. End of 1954 inventories		\$ \$ \$ \$
ITEM 10 CAPITAL EXPENDITURES DURING 1954	(Include expenditures which are chargeable to fixed assets accounts for which depreciation accounts are maintained; exclude used plant and equipment acquired from others.) Capital expenditures during 1954 for new construction, new machinery, and new equipment (include major alterations and capitalized repairs; exclude land)		\$ \$ \$ \$
AX6 S7	A7 S8	FOR CENSUS USE ONLY	A9

Form MC-D2—General Manufactures Form

ITEM 11 NATURE OF ACTIVITY	Describe briefly the kind of activity of this establishment. Cover all activities, both manufacturing and nonmanufacturing. For manufactured products, indicate process of manufacture, materials, and types of products. Examples: "bake bread and rolls"; "bottle carbonated soft drinks"; "cut and sew ladies' dresses"; "manufacture millwork products and sell lumber"; "machine castings."				
ITEM 12 PRODUCTS AND SERVICES OF THIS ESTABLISH- MENT DURING 1954	Enter below on line 10 the total receipts from products shipped or services sold by this establishment during 1954. Account for all the receipts of this establishment. Examine the enclosed 1954 product class reference list and note the product classes you shipped in 1954. For each class, enter in Column (J) the code number on the reference list. Enter in Column (E) the 1954 value of shipments of such products made in this plant. On the same line, in Column (A), describe the products included in that class. (Do not include on a single line the value for products which are requested separately.)				
	K Description of products (A)	Line No. (C) (D)	1954 Value of shipments and receipts (t. o. b. plant; omit cents) (E)	Product class code number (see 1954 product class reference list) (J)	Cen- sus Use Only
a. Products made in this establish- ment		1	\$		99
		2	\$		99
		3	\$		99
		4	\$		99
		5	\$		99
		6	\$		99
		6a	\$		99
		6b	\$		99
b. Miscellaneous Receipts	Receipts for work done for others on their own materials (contract work). (Describe products worked on and kind of work):				
		7	\$	90000	99
	Receipts for repair work, installation and construction of own products, and sale of scrap and refuse.	8	\$		
c. Resales	Sales of products bought and resold without further manufacture, processing, or assembly in this establishment.	JX5	\$		
d. TOTAL (Sum of lines 1-9)		J6	\$ -		

ITEM 13	<p>The Census Bureau reviews your report for omissions, inconsistencies, and unusual ratios. To save you future correspondence about these problems, please make the following checks before returning your report:</p> <p>(1) Review the report carefully to see that no items are omitted.</p> <p>(2) Copy the figures requested in Columns I and II below; analyze your results in Column III below.</p> <p>(3) Correct your report for any errors you find; explain unusual figures in "Remarks" section.</p>					J7	J8
CHECKS TO ASSURE A COMPLETE AND ACCURATE REPORT	Copy in Column I the figures reported in— Item 7 (Total 1954 payrolls) \$ Item 8a plus 8b plus 8c (Total cost of materials, etc.) ... \$	Column I Item 12d, Col. (E) (Value of shipments) \$ Item 12d, Col. (E) (Value of shipments) \$	Column II Payrolls per dollar of shipments ¢ Materials cost per dollar of shipments ¢	Divide Column I by Column II; show result in Column III Column III	Remarks		
ITEM 14	Name and address of person who should be contacted if questions arise regarding this report						Telephone No.
ITEM 15	This report is substantially accurate and covers the period from to						
CERTIFICATION	<div style="display: flex; justify-content: space-between;"> Date Title </div>						

PUNCH CARDS

Card A

GEOGRAPHIC CODES															1954		PLANT		FIELD								EXCESS																																																				
STATE	SEA	COUNTY	CITY	CITY SIZE	V.A. SIZE CODE	INDUSTRY	SAMPLE CLASS	PLANT SPECIALIZATION	IDENTIFICATION	CARD TYPE	1	2	3	4	5	6	7	8																																																													
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80

Card B

GEOGRAPHIC CODES															1954		PLANT		FIELD								EXCESS																																																				
STATE	SEA	COUNTY	CITY	CITY SIZE	V.A. SIZE CODE	INDUSTRY	SAMPLE CLASS	PLANT SPECIALIZATION	IDENTIFICATION	CARD TYPE	1	2	3	4	5	6	7	8																																																													
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80

Card C

GEOGRAPHIC CODES															1954		PLANT		FIELD								EXCESS																																																				
STATE	SEA	COUNTY	CITY	CITY SIZE	V.A. SIZE CODE	INDUSTRY	SAMPLE CLASS	PLANT SPECIALIZATION	IDENTIFICATION	CARD TYPE	1	2	3	4	5	6	7	8																																																													
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80

Card D

GEOGRAPHIC CODES															1954		PLANT		FIELD								EXCESS																																																				
STATE	SEA	COUNTY	CITY	CITY SIZE	V.A. SIZE CODE	INDUSTRY	SAMPLE CLASS	PLANT SPECIALIZATION	IDENTIFICATION	CARD TYPE	1	2	3	4	5	6	7	8																																																													
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80

Card E

GEOGRAPHIC CODES															1954		PLANT		FIELD								EXCESS																																																				
STATE	SEA	COUNTY	CITY	CITY SIZE	V.A. SIZE CODE	INDUSTRY	SAMPLE CLASS	PLANT SPECIALIZATION	IDENTIFICATION	CARD TYPE	1	2	3	4	5	6	7	8																																																													
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80

Card F

GEOGRAPHIC CODES															1954		PLANT		FIELD								EXCESS																																																				
STATE	SEA	COUNTY	CITY	CITY SIZE	V.A. SIZE CODE	INDUSTRY	SAMPLE CLASS	PLANT SPECIALIZATION	IDENTIFICATION	CARD TYPE	1	2	3	4	5	6	7	8																																																													
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80

LINES	GEOGRAPHIC CODES										PLANT IDENTIFICATION	CARD TYPE	FIELD 1 VALUE OF SHIPMENTS (NET) (000)	FIELD 2 VALUE ADDED BY MFR (000)	FIELD 3 TOTAL NEW EXPENDITURES (000)	FIELD 4 WATER CODE	FIELD 5 NEW PLANT (000)	FIELD 6 NEW EQUIP. (000)	CAPITAL EXPENDITURES			EXCESS								
	STATE	SMA/SEA	COUNTY	CITY	CITY SIZE	Y. SIZE CODE	W. A. SIZE CODE	1954 INDUSTRY	PLANT CLASS	PLANT SPECIALIZATION									USED (000)	TOTAL (000)										
1	0	0	0	0	0	0	0	0	0	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0
2	0	0	0	0	0	0	0	0	0	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0
3	0	0	0	0	0	0	0	0	0	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0
4	0	0	0	0	0	0	0	0	0	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0
5	0	0	0	0	0	0	0	0	0	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0
6	0	0	0	0	0	0	0	0	0	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0
7	0	0	0	0	0	0	0	0	0	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0
8	0	0	0	0	0	0	0	0	0	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0
9	0	0	0	0	0	0	0	0	0	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0
10	0	0	0	0	0	0	0	0	0	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0
11	0	0	0	0	0	0	0	0	0	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0
12	0	0	0	0	0	0	0	0	0	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0
13	0	0	0	0	0	0	0	0	0	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0
14	0	0	0	0	0	0	0	0	0	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0
15	0	0	0	0	0	0	0	0	0	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0
16	0	0	0	0	0	0	0	0	0	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0
17	0	0	0	0	0	0	0	0	0	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0
18	0	0	0	0	0	0	0	0	0	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0
19	0	0	0	0	0	0	0	0	0	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6				

[illegible][illegible][illegible][illegible]

GEOGRAPHIC CODES												PLANT IDENTIFICATION										CARD TYPE	FIELD 1	FIELD 2	FIELD 3	FIELD 4	FIELD 5	FIELD 6	FIELD 7	FIELD 8	FIELD 9	FIELD 10	FIELD 11	FIELD 12	FIELD 13	FIELD 14	FIELD 15	FIELD 16	FIELD 17	FIELD 18	FIELD 19	FIELD 20	FIELD 21	FIELD 22	FIELD 23	FIELD 24	FIELD 25	FIELD 26	FIELD 27	FIELD 28	FIELD 29	FIELD 30	FIELD 31	FIELD 32	FIELD 33	FIELD 34	FIELD 35	FIELD 36	FIELD 37	FIELD 38	FIELD 39	FIELD 40	FIELD 41	FIELD 42	FIELD 43	FIELD 44	FIELD 45	FIELD 46	FIELD 47	FIELD 48	FIELD 49	FIELD 50	FIELD 51	FIELD 52	FIELD 53	FIELD 54	FIELD 55	FIELD 56	FIELD 57	FIELD 58	FIELD 59	FIELD 60	FIELD 61	FIELD 62	FIELD 63	FIELD 64	FIELD 65	FIELD 66	FIELD 67	FIELD 68	FIELD 69	FIELD 70	FIELD 71	FIELD 72	FIELD 73	FIELD 74	FIELD 75	FIELD 76	FIELD 77	FIELD 78	FIELD 79	FIELD 80	FIELD 81	FIELD 82	FIELD 83	FIELD 84	FIELD 85	FIELD 86	FIELD 87	FIELD 88	FIELD 89	FIELD 90	FIELD 91	FIELD 92	FIELD 93	FIELD 94	FIELD 95	FIELD 96	FIELD 97	FIELD 98	FIELD 99	FIELD 100	FIELD 101	FIELD 102	FIELD 103	FIELD 104	FIELD 105	FIELD 106	FIELD 107	FIELD 108	FIELD 109	FIELD 110	FIELD 111	FIELD 112	FIELD 113	FIELD 114	FIELD 115	FIELD 116	FIELD 117	FIELD 118	FIELD 119	FIELD 120	FIELD 121	FIELD 122	FIELD 123	FIELD 124	FIELD 125	FIELD 126	FIELD 127	FIELD 128	FIELD 129	FIELD 130	FIELD 131	FIELD 132	FIELD 133	FIELD 134	FIELD 135	FIELD 136	FIELD 137	FIELD 138	FIELD 139	FIELD 140	FIELD 141	FIELD 142	FIELD 143	FIELD 144	FIELD 145	FIELD 146	FIELD 147	FIELD 148	FIELD 149	FIELD 150	FIELD 151	FIELD 152	FIELD 153	FIELD 154	FIELD 155	FIELD 156	FIELD 157	FIELD 158	FIELD 159	FIELD 160	FIELD 161	FIELD 162	FIELD 163	FIELD 164	FIELD 165	FIELD 166	FIELD 167	FIELD 168	FIELD 169	FIELD 170	FIELD 171	FIELD 172	FIELD 173	FIELD 174	FIELD 175	FIELD 176	FIELD 177	FIELD 178	FIELD 179	FIELD 180	FIELD 181	FIELD 182	FIELD 183	FIELD 184	FIELD 185	FIELD 186	FIELD 187	FIELD 188	FIELD 189	FIELD 190	FIELD 191	FIELD 192	FIELD 193	FIELD 194	FIELD 195	FIELD 196	FIELD 197	FIELD 198	FIELD 199	FIELD 200	FIELD 201	FIELD 202	FIELD 203	FIELD 204	FIELD 205	FIELD 206	FIELD 207	FIELD 208	FIELD 209	FIELD 210	FIELD 211	FIELD 212	FIELD 213	FIELD 214	FIELD 215	FIELD 216	FIELD 217	FIELD 218	FIELD 219	FIELD 220	FIELD 221	FIELD 222	FIELD 223	FIELD 224	FIELD 225	FIELD 226	FIELD 227	FIELD 228	FIELD 229	FIELD 230	FIELD 231	FIELD 232	FIELD 233	FIELD 234	FIELD 235	FIELD 236	FIELD 237	FIELD 238	FIELD 239	FIELD 240	FIELD 241	FIELD 242	FIELD 243	FIELD 244	FIELD 245	FIELD 246	FIELD 247	FIELD 248	FIELD 249	FIELD 250	FIELD 251	FIELD 252	FIELD 253	FIELD 254	FIELD 255	FIELD 256	FIELD 257	FIELD 258	FIELD 259	FIELD 260	FIELD 261	FIELD 262	FIELD 263	FIELD 264	FIELD 265	FIELD 266	FIELD 267	FIELD 268	FIELD 269	FIELD 270	FIELD 271	FIELD 272	FIELD 273	FIELD 274	FIELD 275	FIELD 276	FIELD 277	FIELD 278	FIELD 279	FIELD 280	FIELD 281	FIELD 282	FIELD 283	FIELD 284	FIELD 285	FIELD 286	FIELD 287	FIELD 288	FIELD 289	FIELD 290	FIELD 291	FIELD 292	FIELD 293	FIELD 294	FIELD 295	FIELD 296	FIELD
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Appendix D

PROVISIONS OF LAW RELATING TO 1954 CENSUS OF MANUFACTURES

(From Title 13 United States Code)

SECTION 131. The Secretary shall take, compile, and publish censuses of manufactures, of mineral industries, and of other businesses, including the distributive trades, service establishments, and transportation (exclusive of means of transportation for which statistics are required by law to be filed with, and are compiled and published by, a designated regulatory body), in the year 1954 and every fifth year thereafter, and each such census shall relate to the year immediately preceding the taking thereof: Provided, That the censuses of manufactures, of mineral industries, and of other businesses, including the distributive trades and service establishments, directed to be taken in the year 1954 relating to the year 1953, shall be taken instead in the year 1955 relating to year 1954. The censuses provided for in this section shall include the United States and its Territories and such Possessions as the Secretary may determine.

SECTION 224. Whoever, being the owner, official, agent, person in charge, or assistant to the person in charge, of any company, business, institution, establishment, religious body, or organization of any nature whatsoever, neglects or refuses, when requested by the Secretary or other authorized officer or employee of the Department of Commerce or bureau or agency thereof, whether such request be made by registered mail, by telegraph, by visiting representative, or by one or more of these methods, to answer completely and correctly to the best of his knowledge

all questions relating to his company, business, institution, establishment, religious body, or other organization, or to records or statistics in his official custody, contained on any census or other schedule prepared and submitted to him under the authority of this title, shall be fined not more than \$500 or imprisoned not more than sixty days, or both; and if he willfully gives a false answer to any such question, he shall be fined not more than \$10,000 or imprisoned not more than one year, or both.

SECTION 9. (a) Neither the Secretary, nor any other officer or employee of the Department of Commerce or bureau or agency thereof, may . . .

(1) use the information furnished under the provisions of this title for any purpose other than the statistical purposes for which it is supplied; or

(2) make any publication whereby the data furnished by any particular establishment or individual under this title can be identified; or

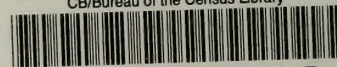
(3) permit anyone other than the sworn officers and employees of the Department or bureau or agency thereof to examine the individual reports.

App. D-1

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